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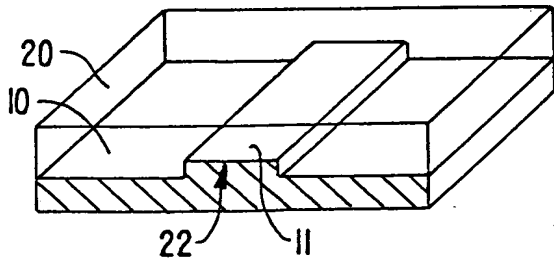


FIG. 1.

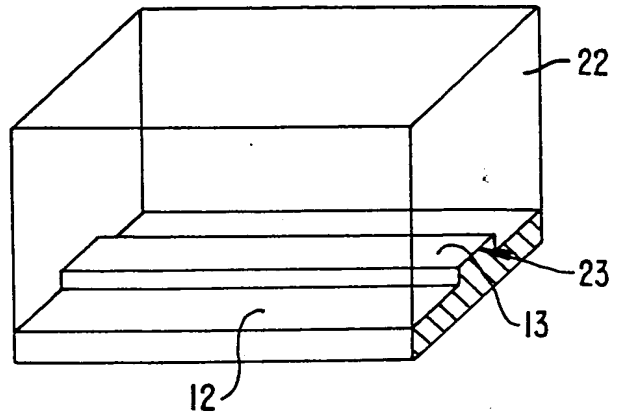


FIG. 2.

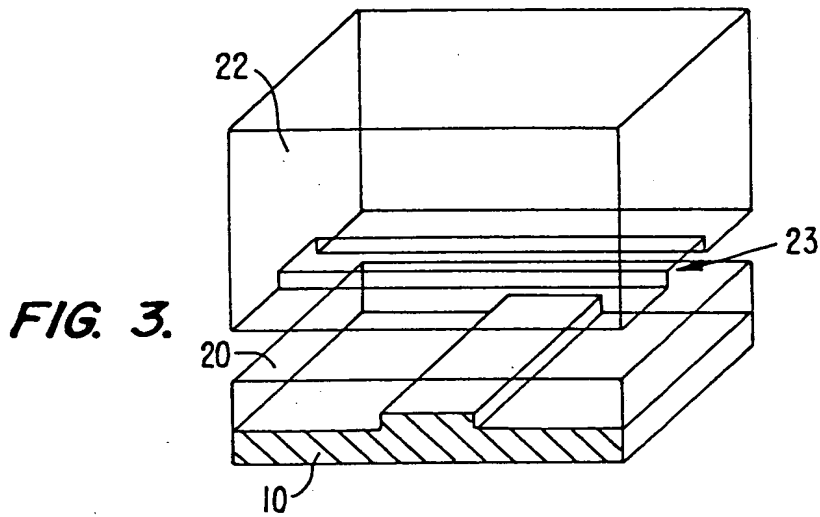


FIG. 3.

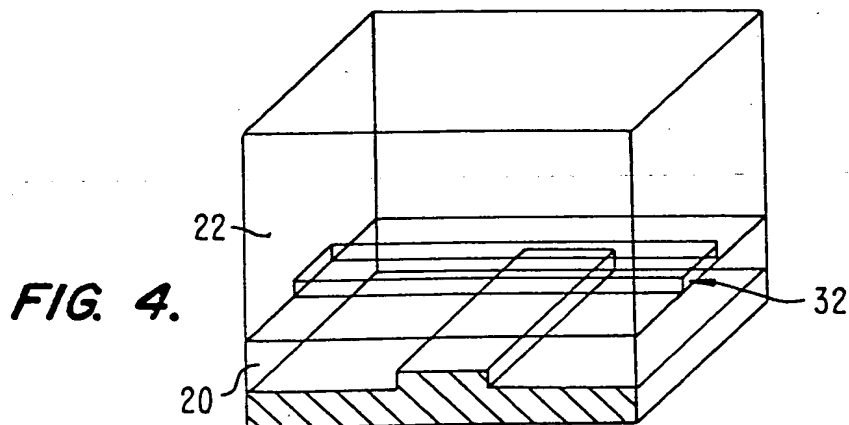


FIG. 4.

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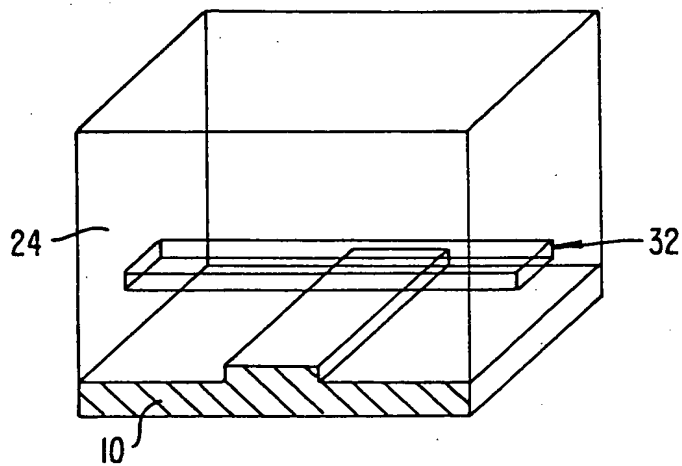


FIG. 5.

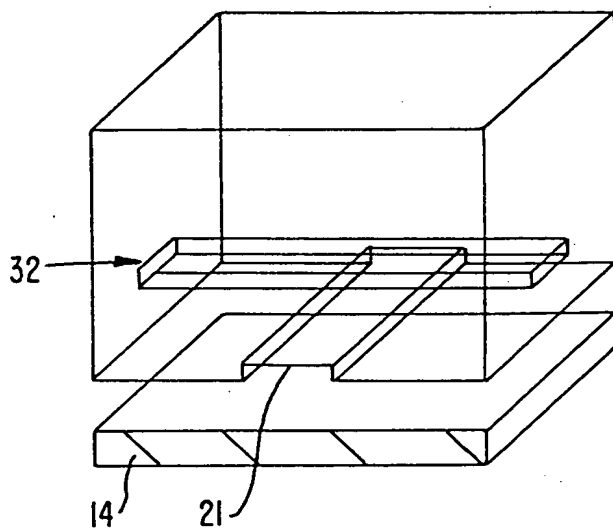


FIG. 6.

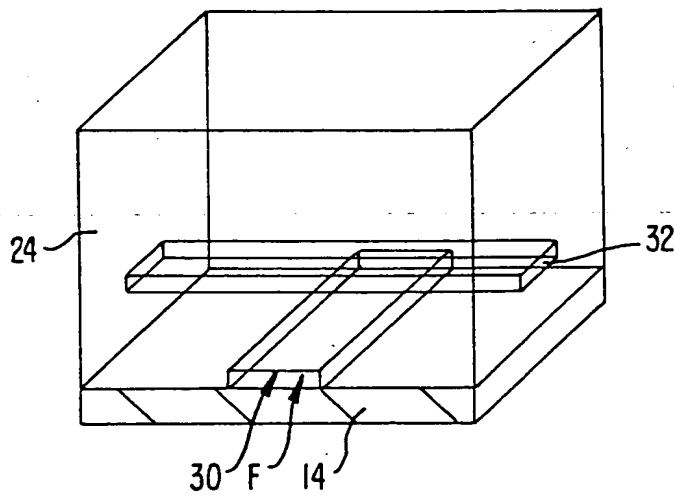


FIG. 7A.

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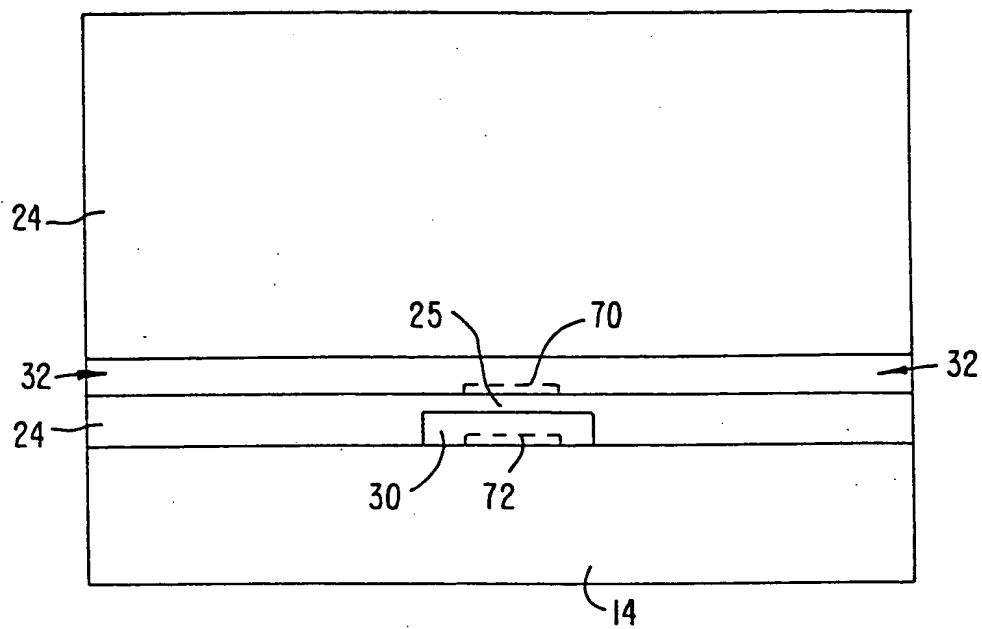


FIG. 7B.

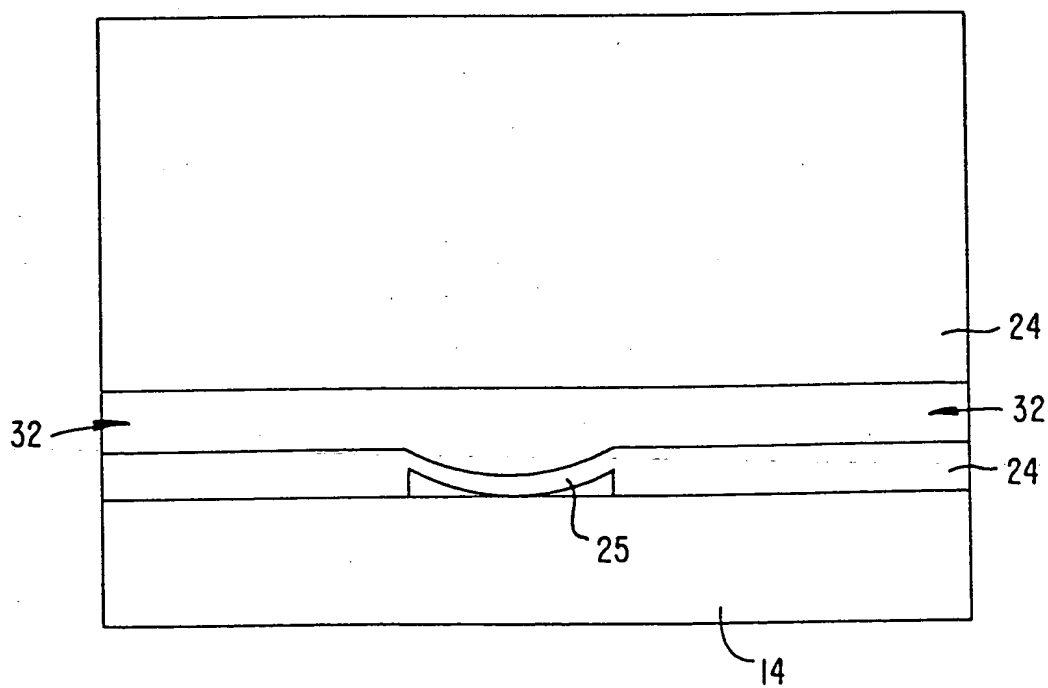


FIG. 7H.

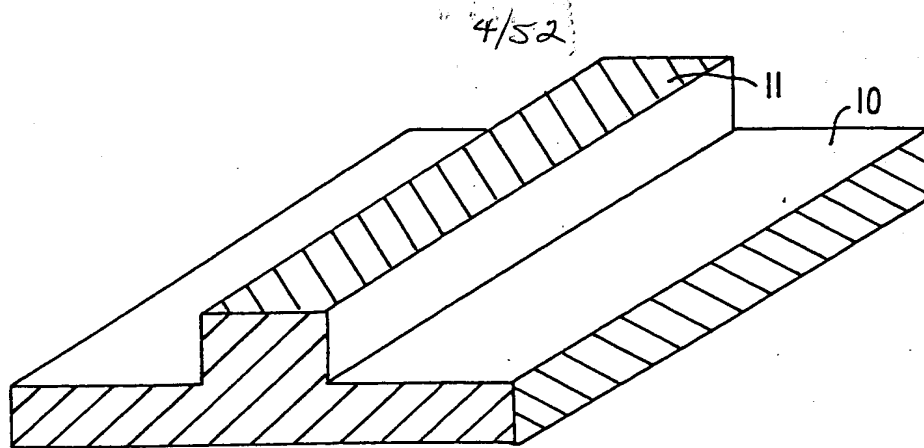


FIG. 7C.

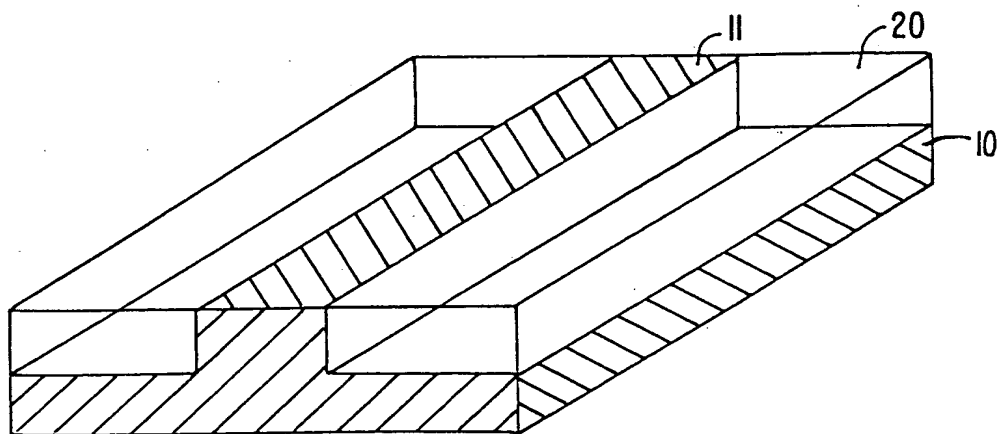


FIG. 7D.

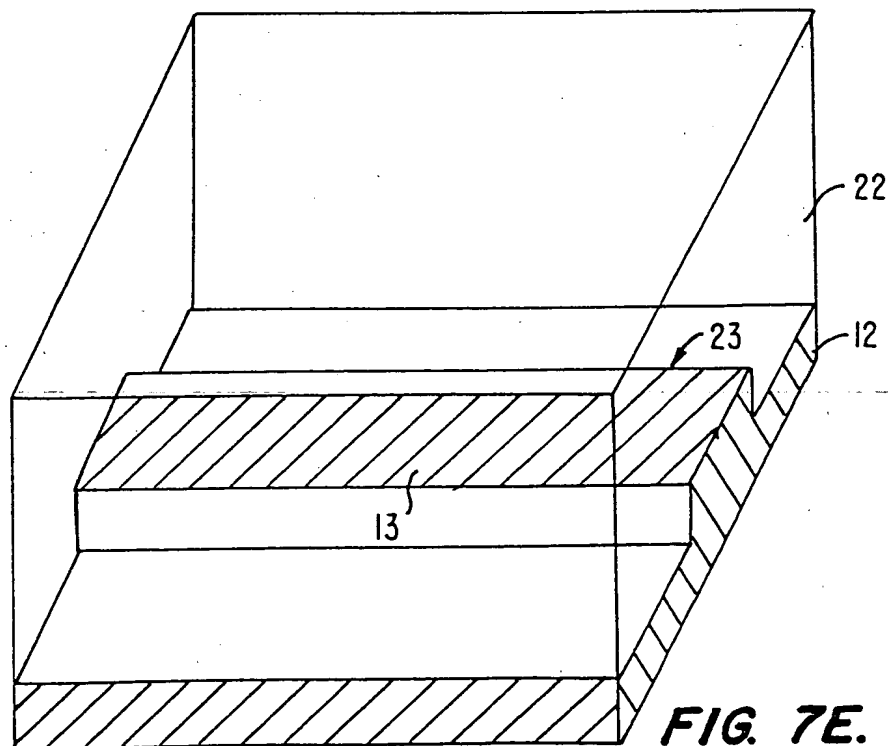


FIG. 7E.

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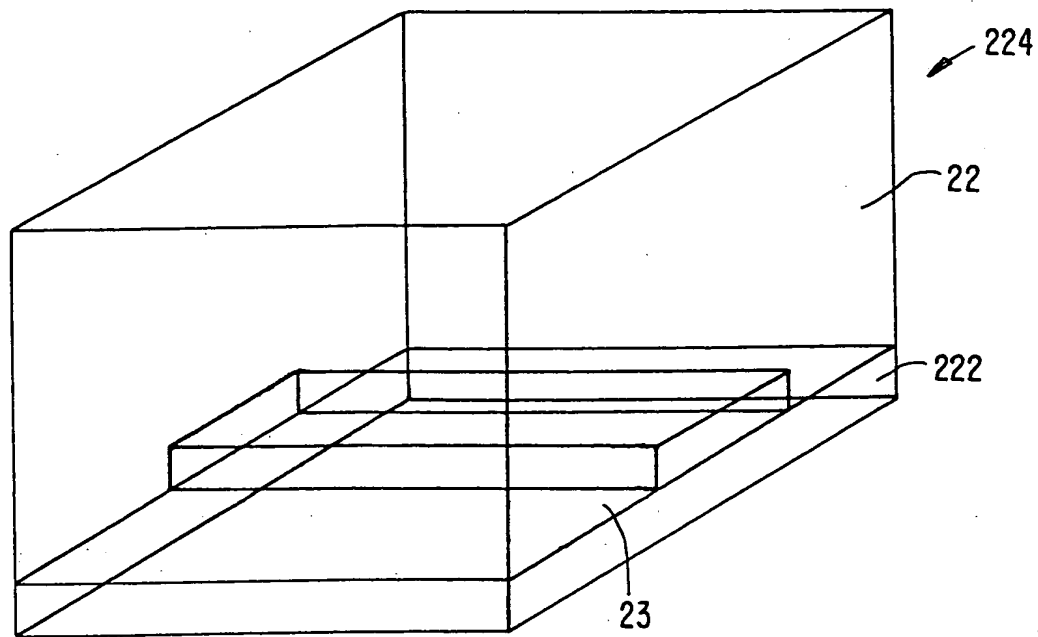


FIG. 7F.

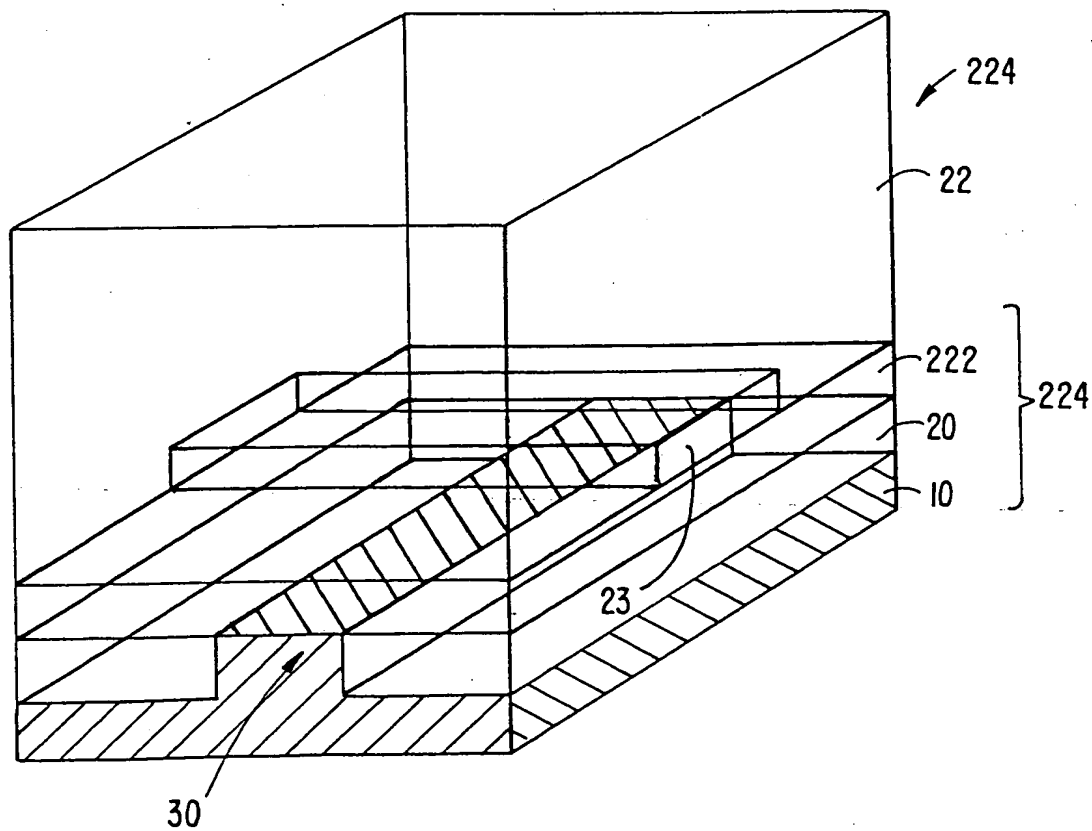


FIG. 7G.

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FIG. 8.

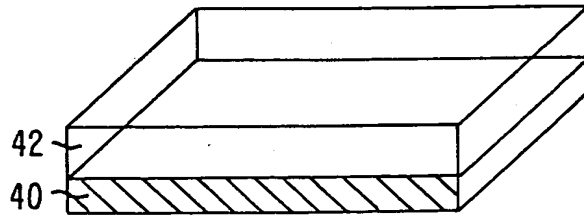


FIG. 9.

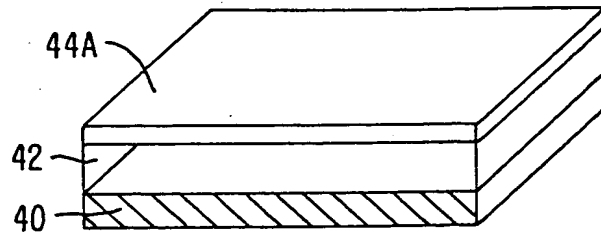


FIG. 10.

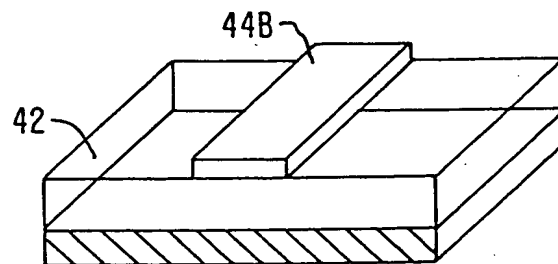
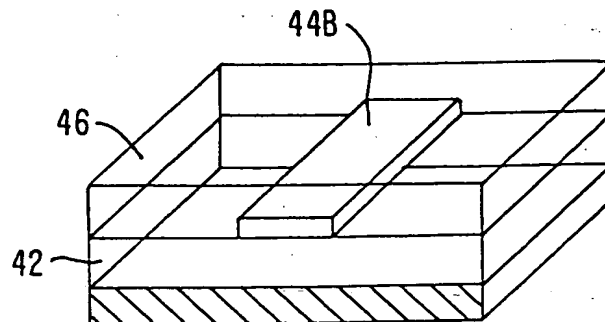


FIG. 11.



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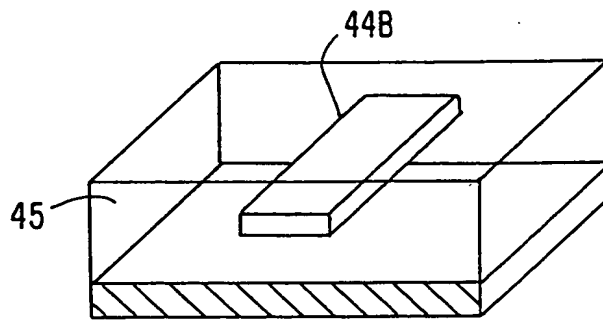


FIG. 12.

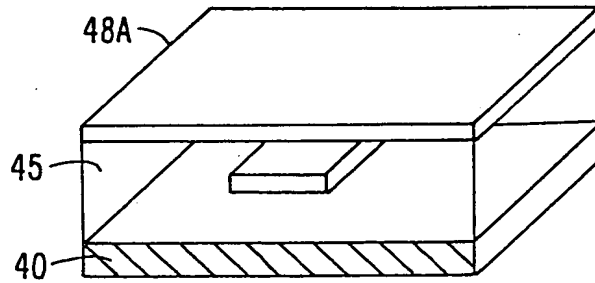


FIG. 13.

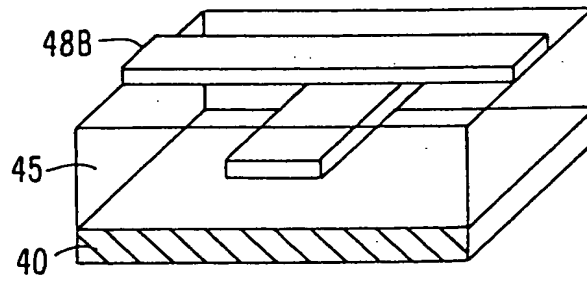


FIG. 14.

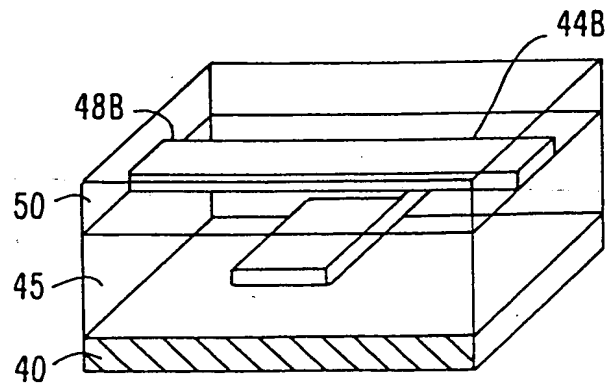


FIG. 15.

FIG. 16.

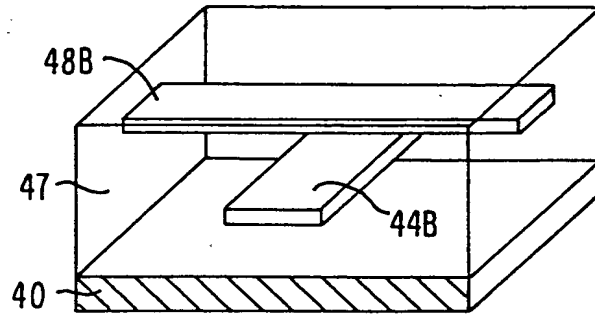


FIG. 17.

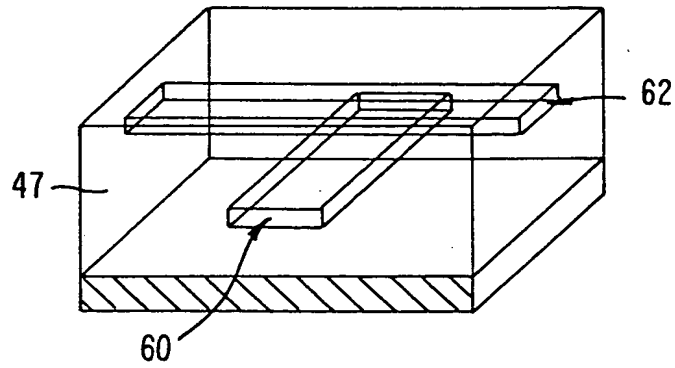
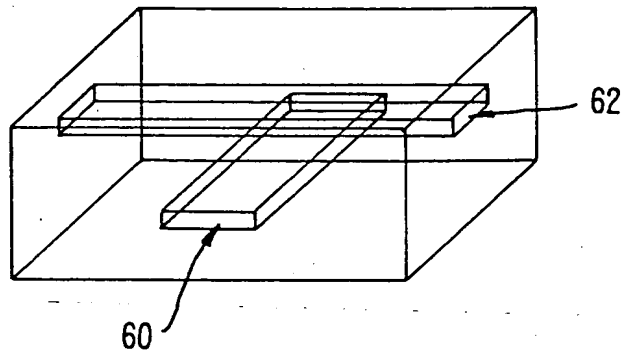


FIG. 18.



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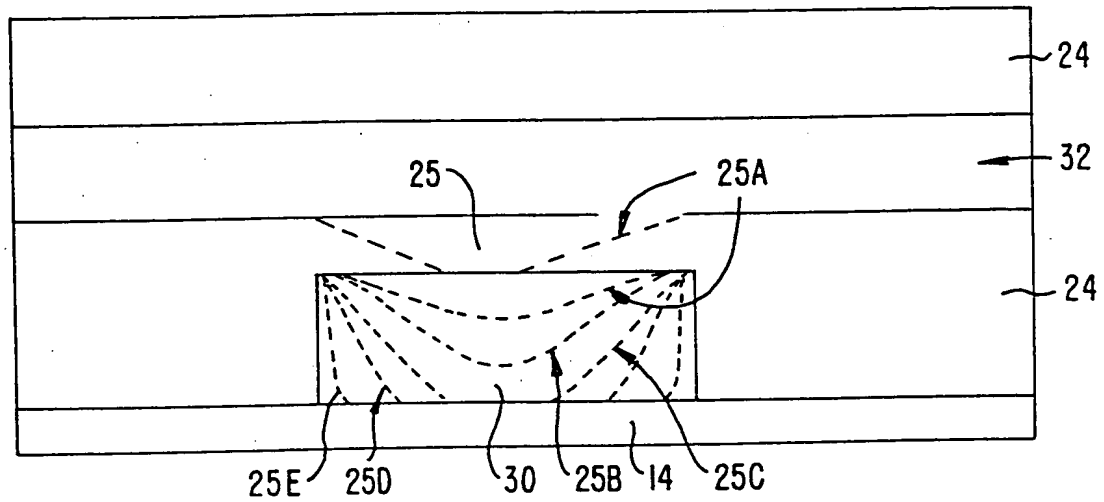


FIG. 19.

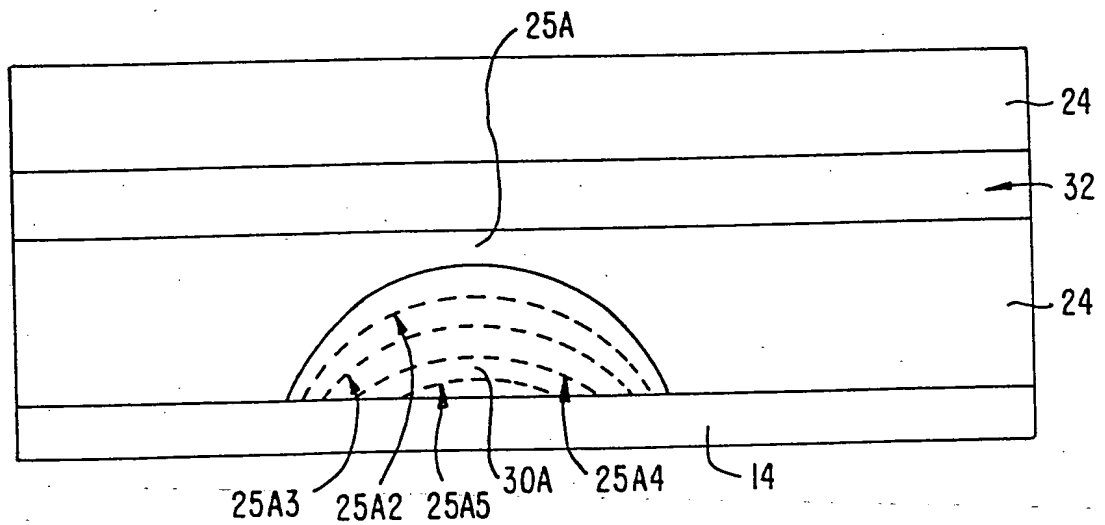


FIG. 20.

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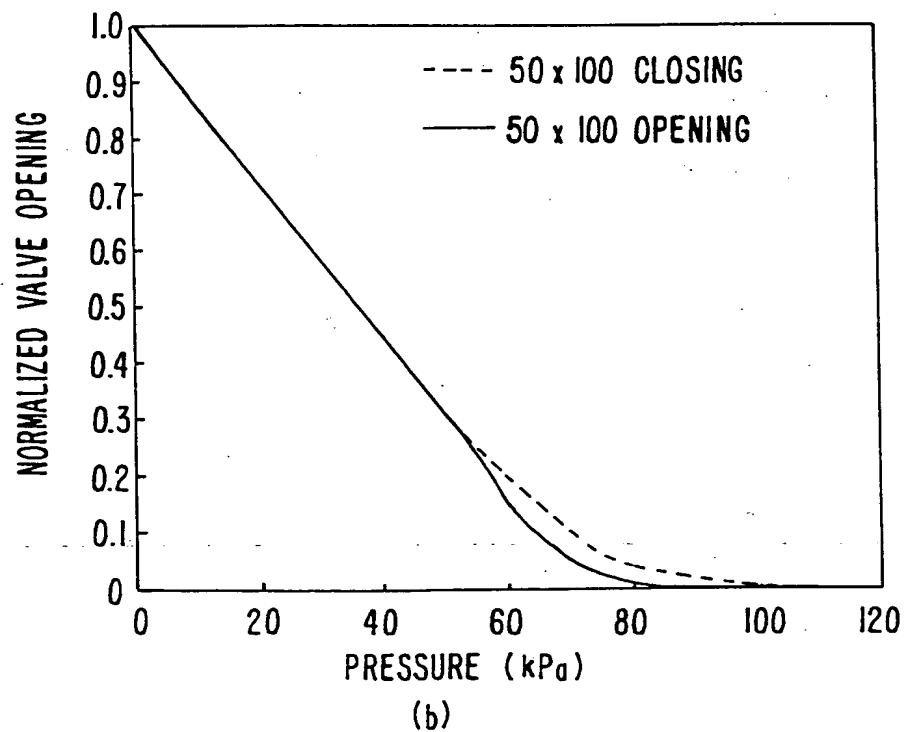
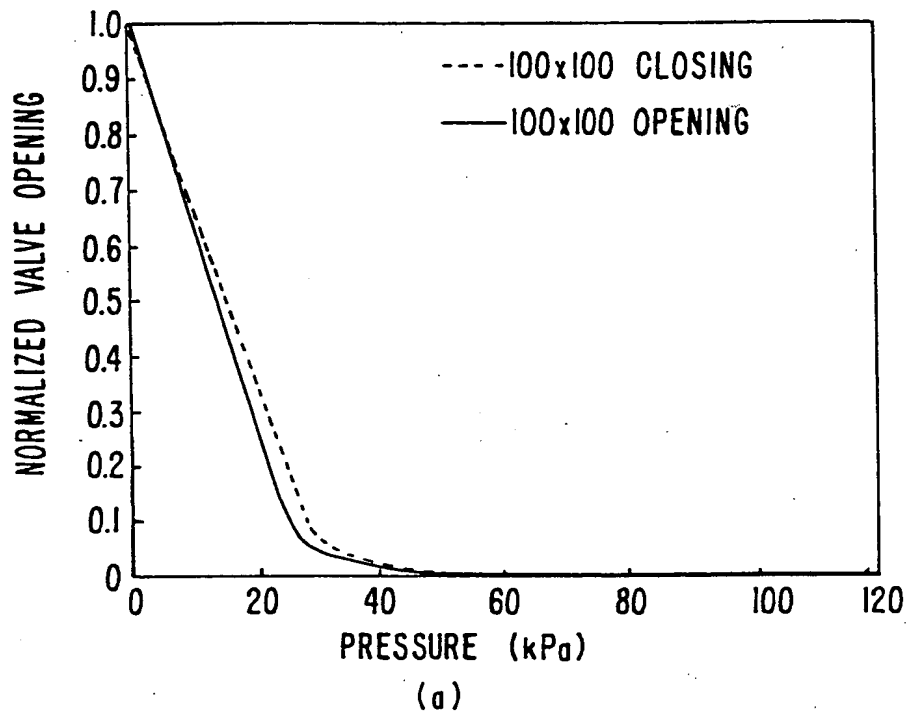
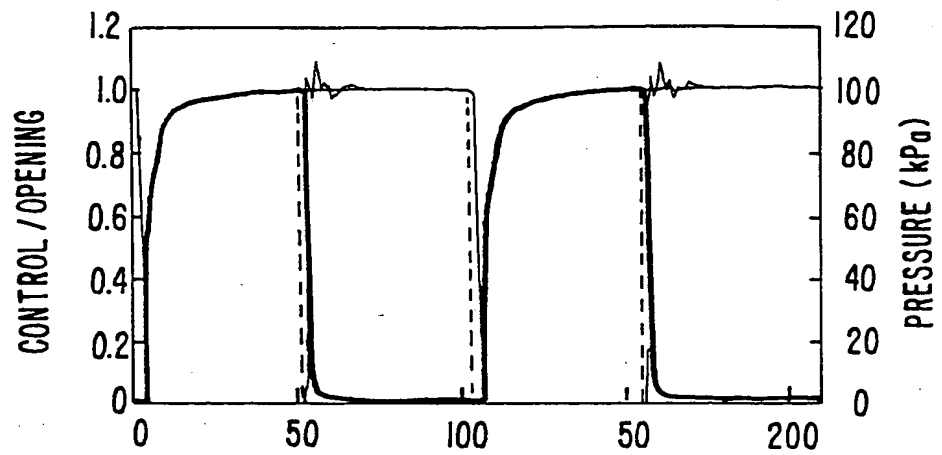
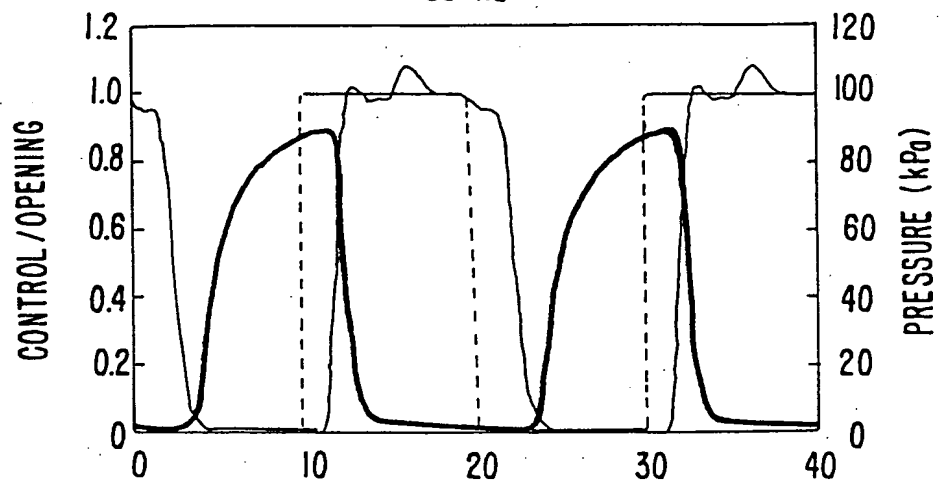


FIG. 21.

u/s2 10 Hz
 --- CONTROL — VALVE OPENING — PRESSURE



50 Hz



100 Hz

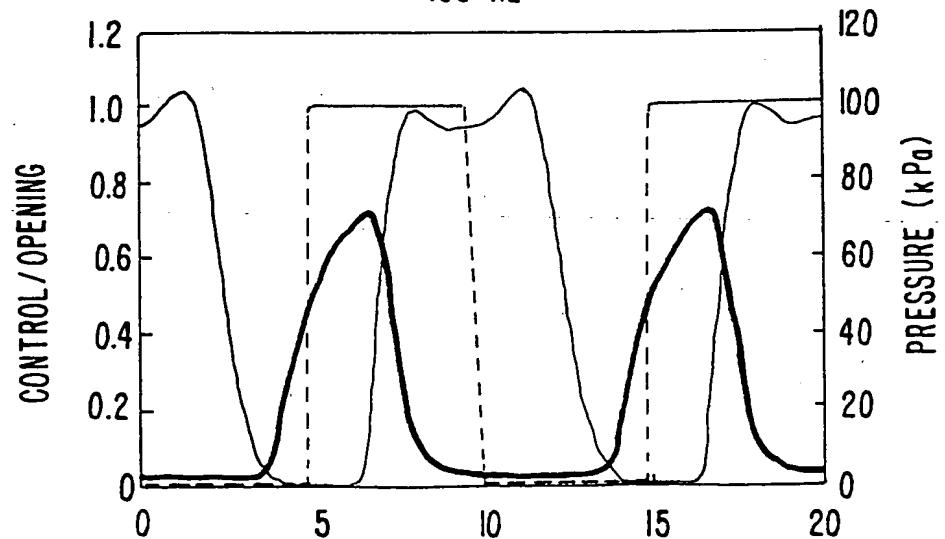


FIG. 22.

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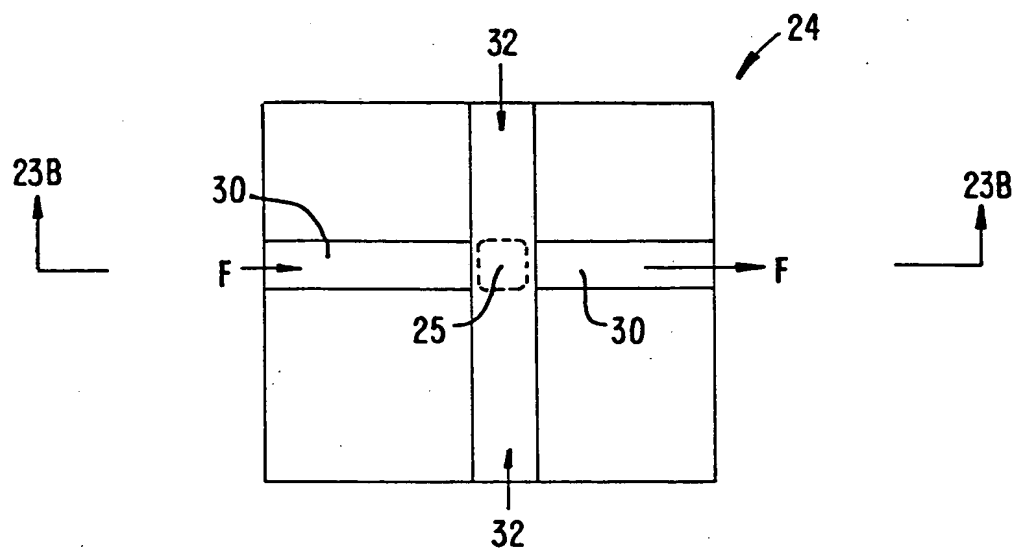


FIG. 23A.

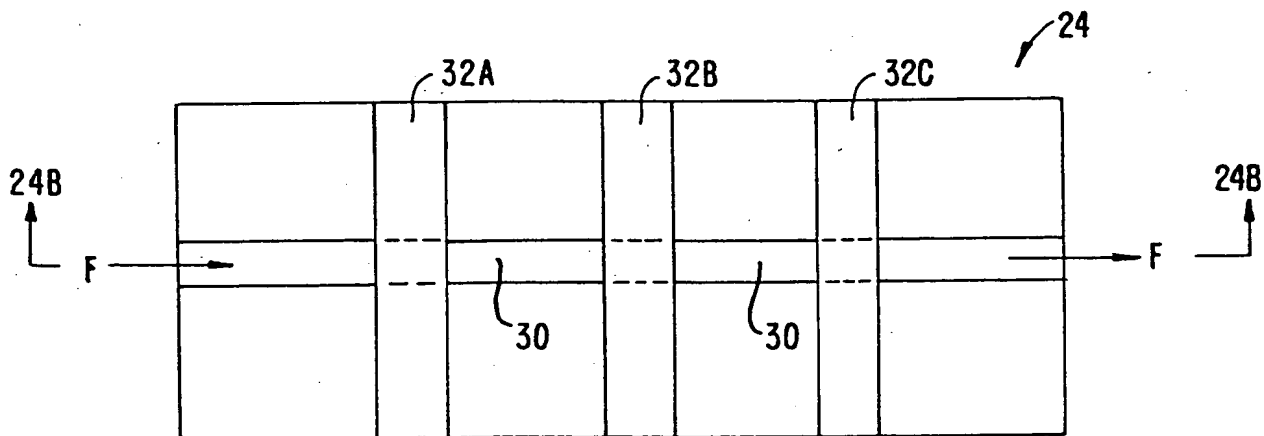


FIG. 24A.

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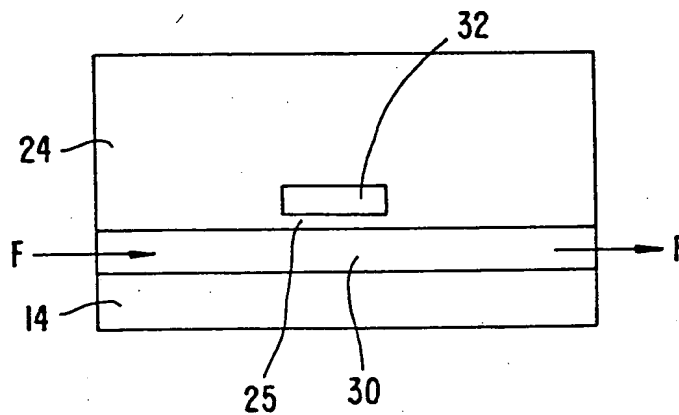


FIG. 23B.

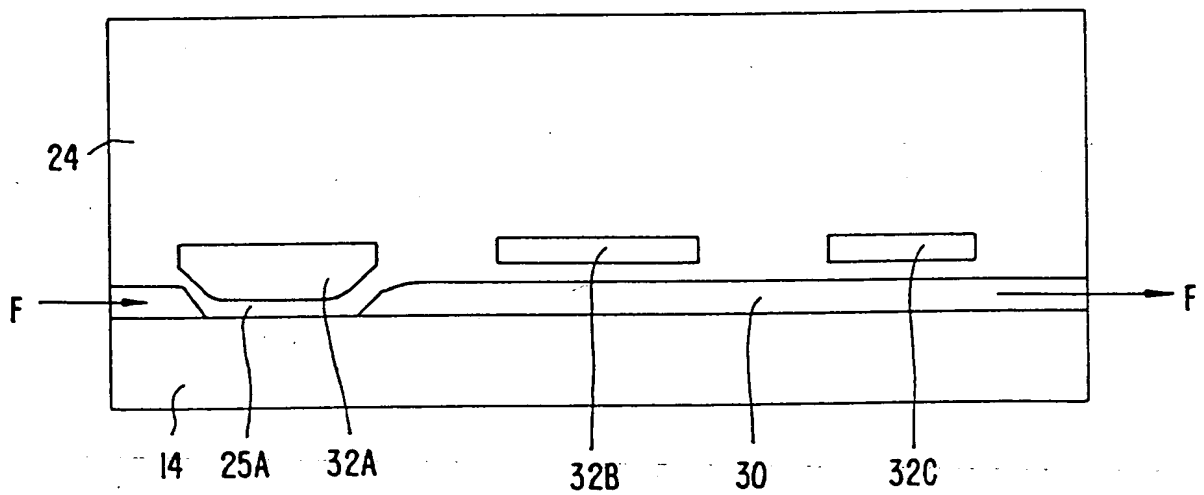


FIG. 24B.

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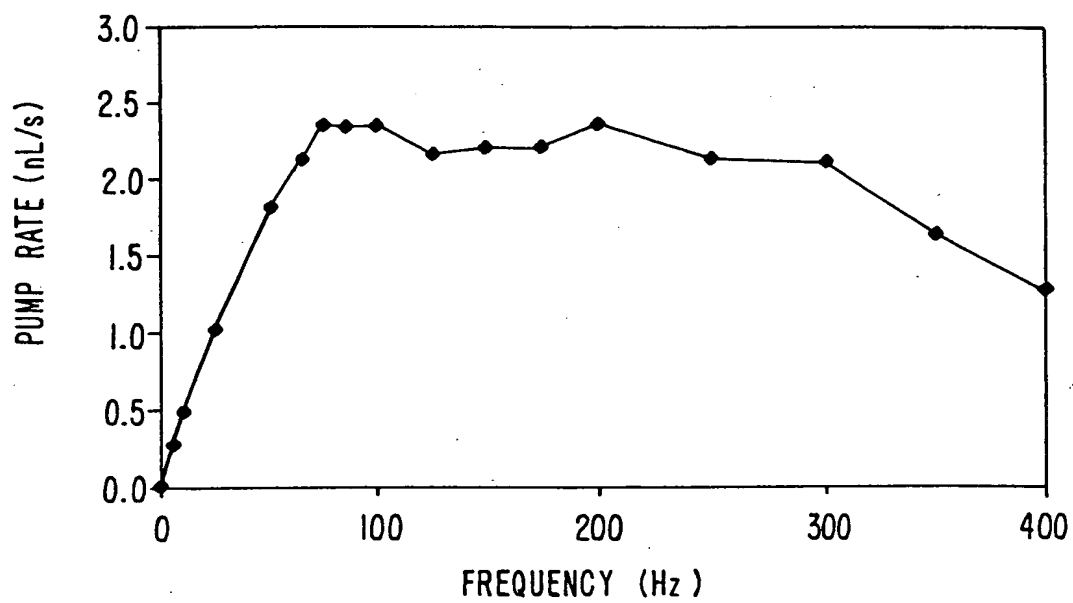


FIG. 25.

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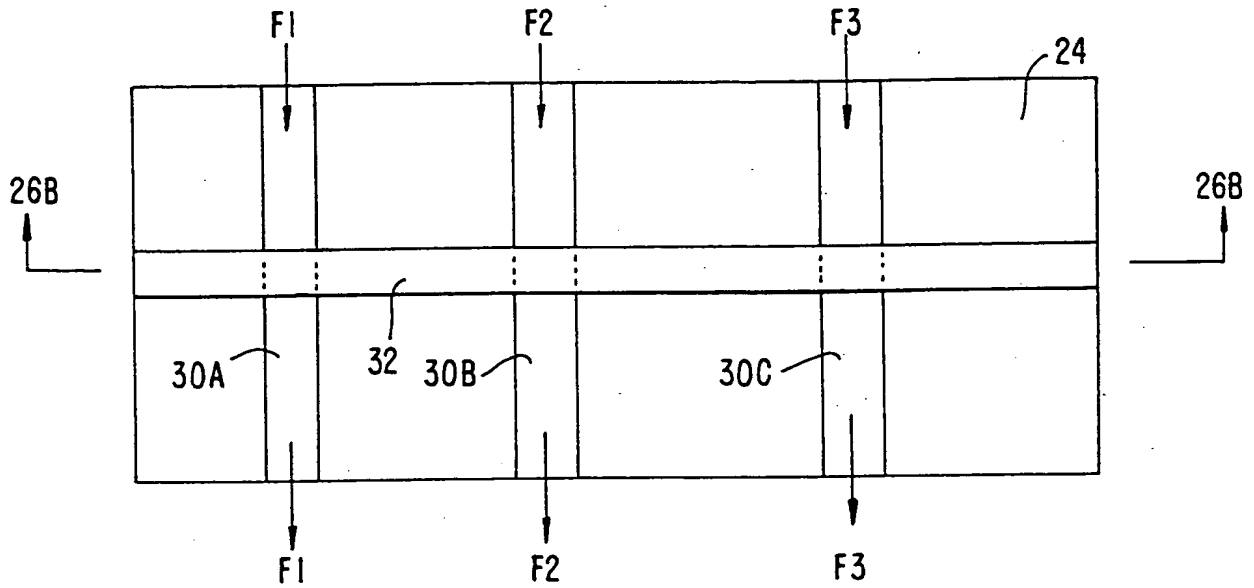


FIG. 26A.

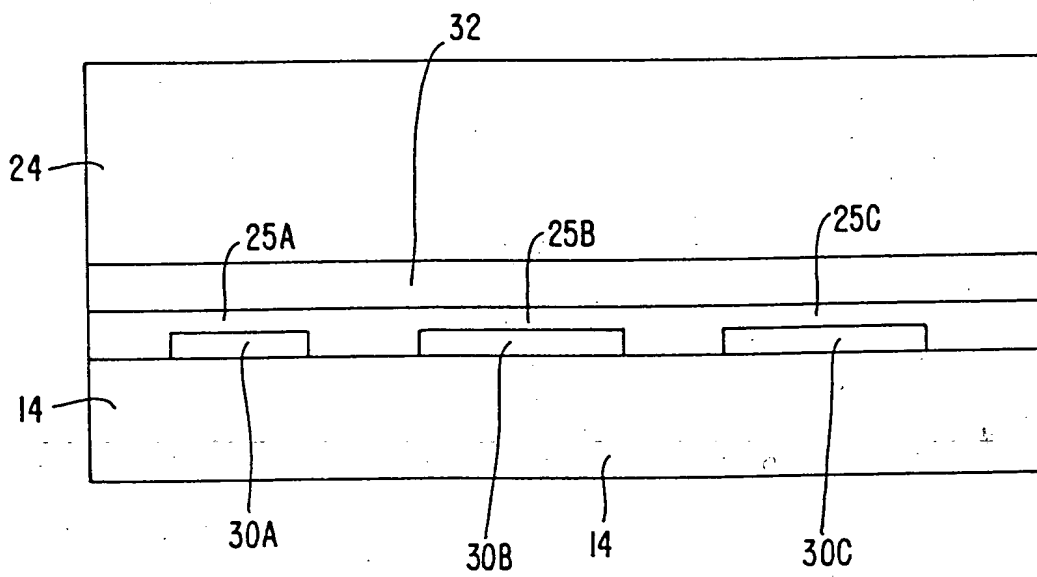


FIG. 26B.

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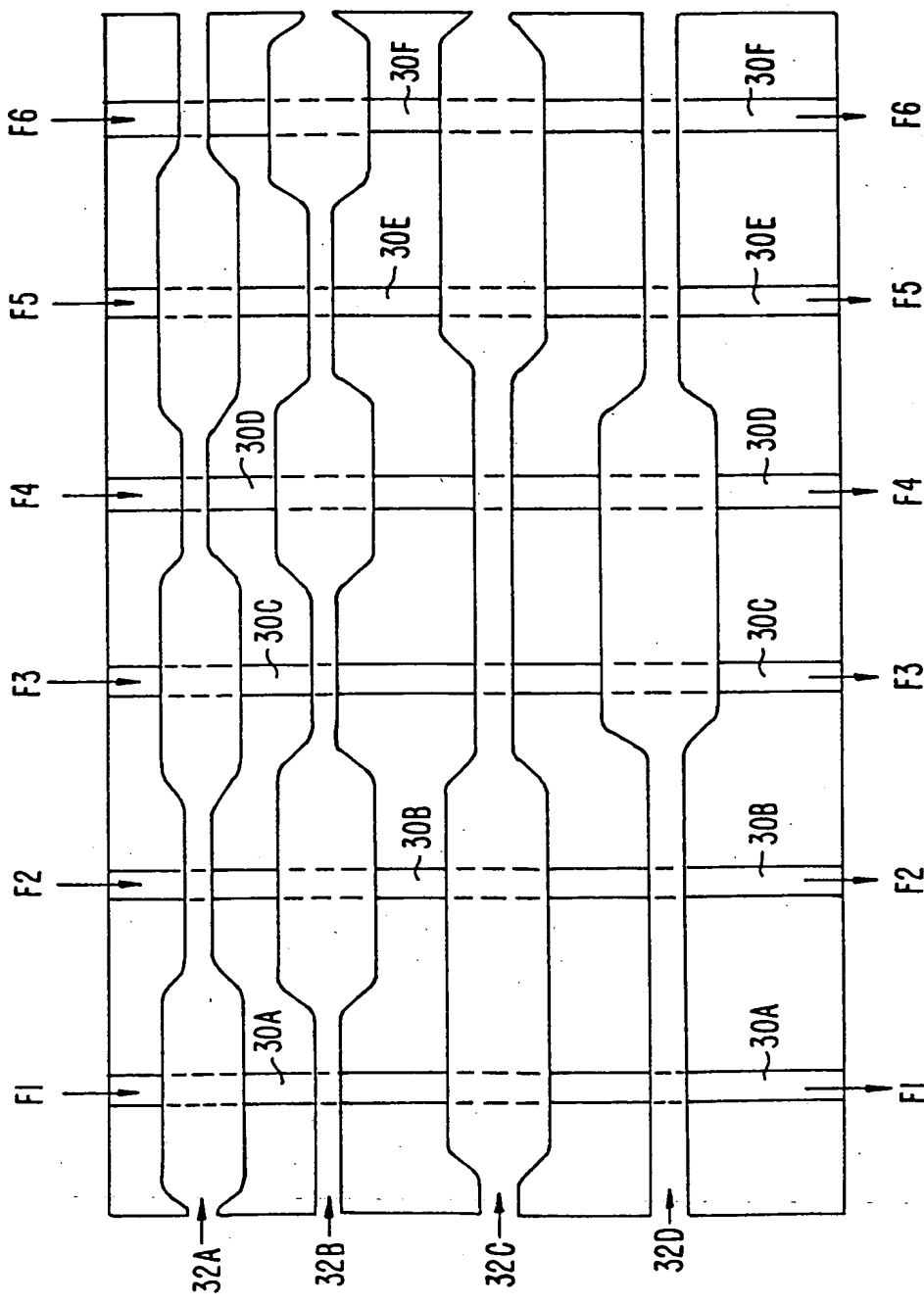


FIG. 27.

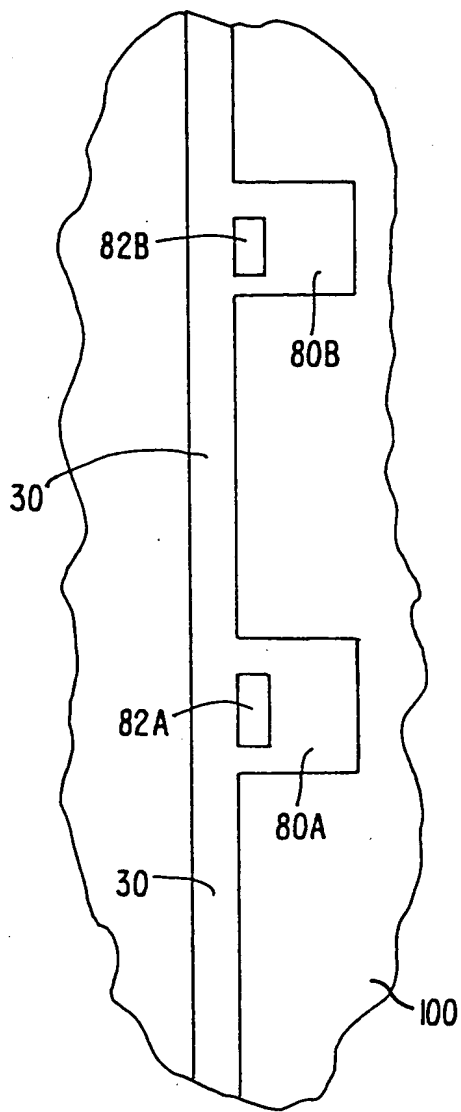


FIG. 28A.

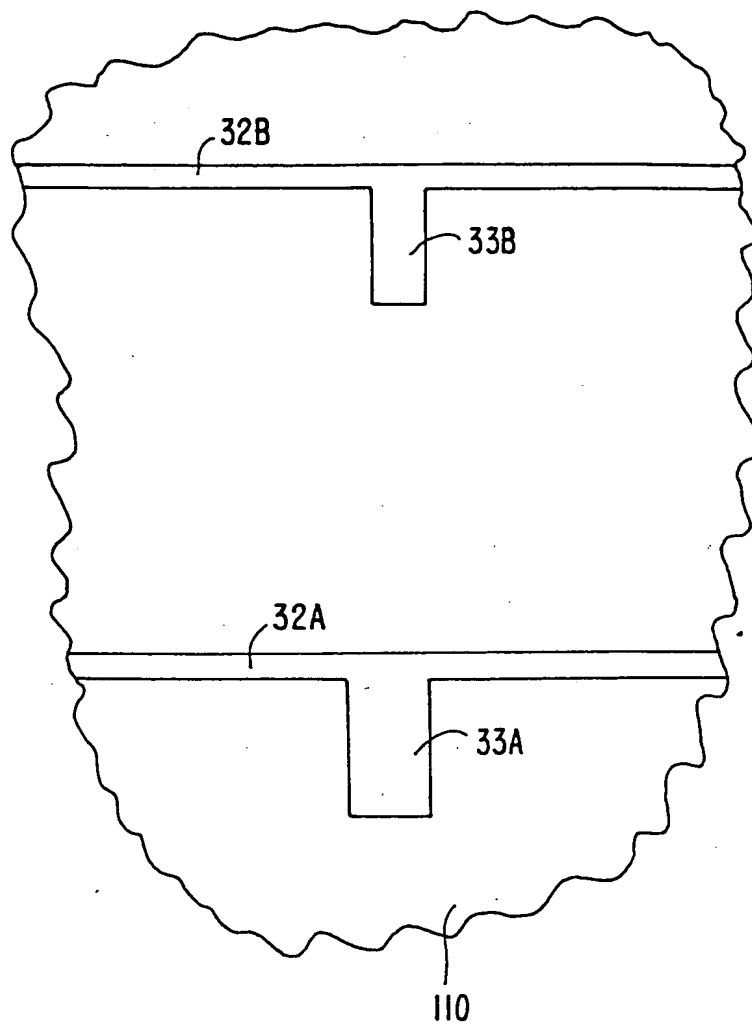


FIG. 28B.

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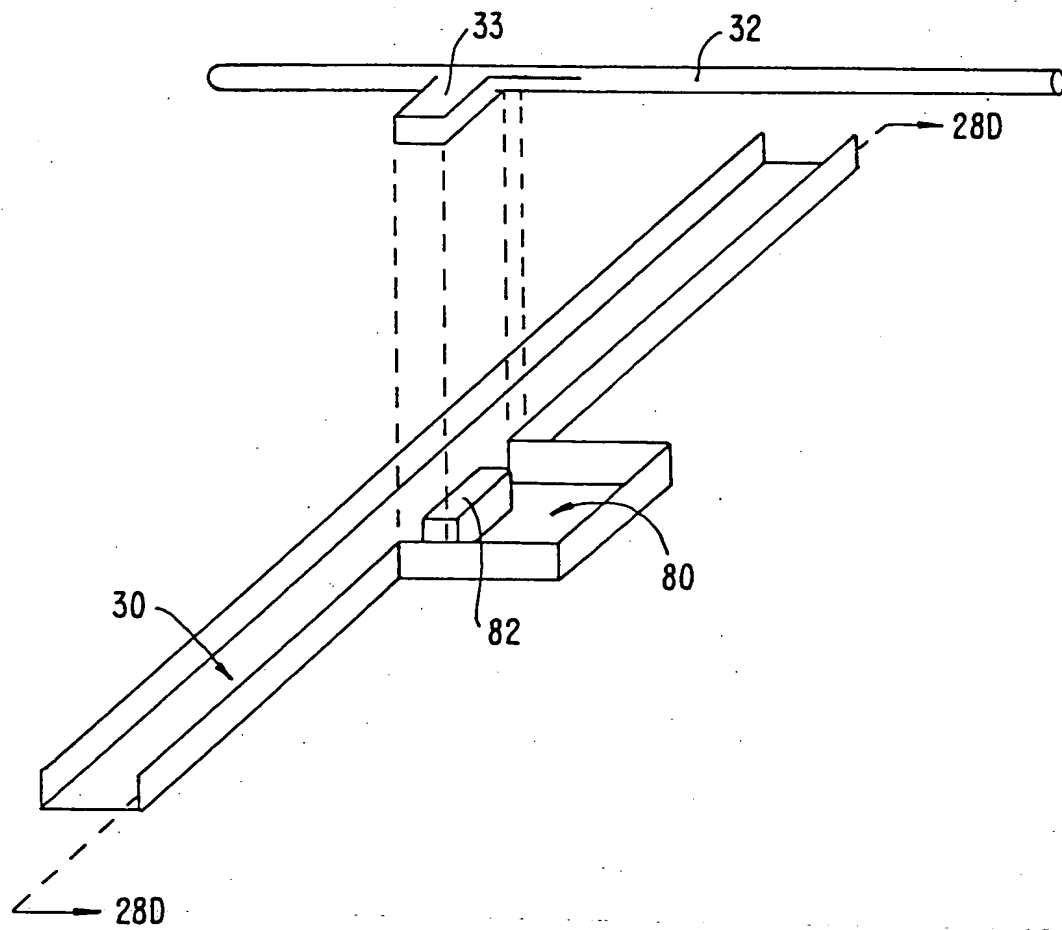


FIG. 28C.

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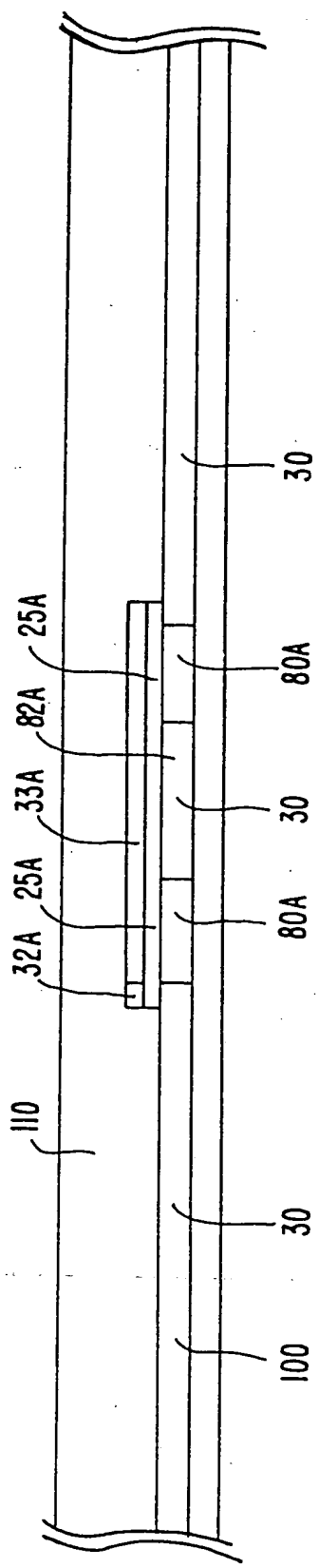


FIG. 28D.

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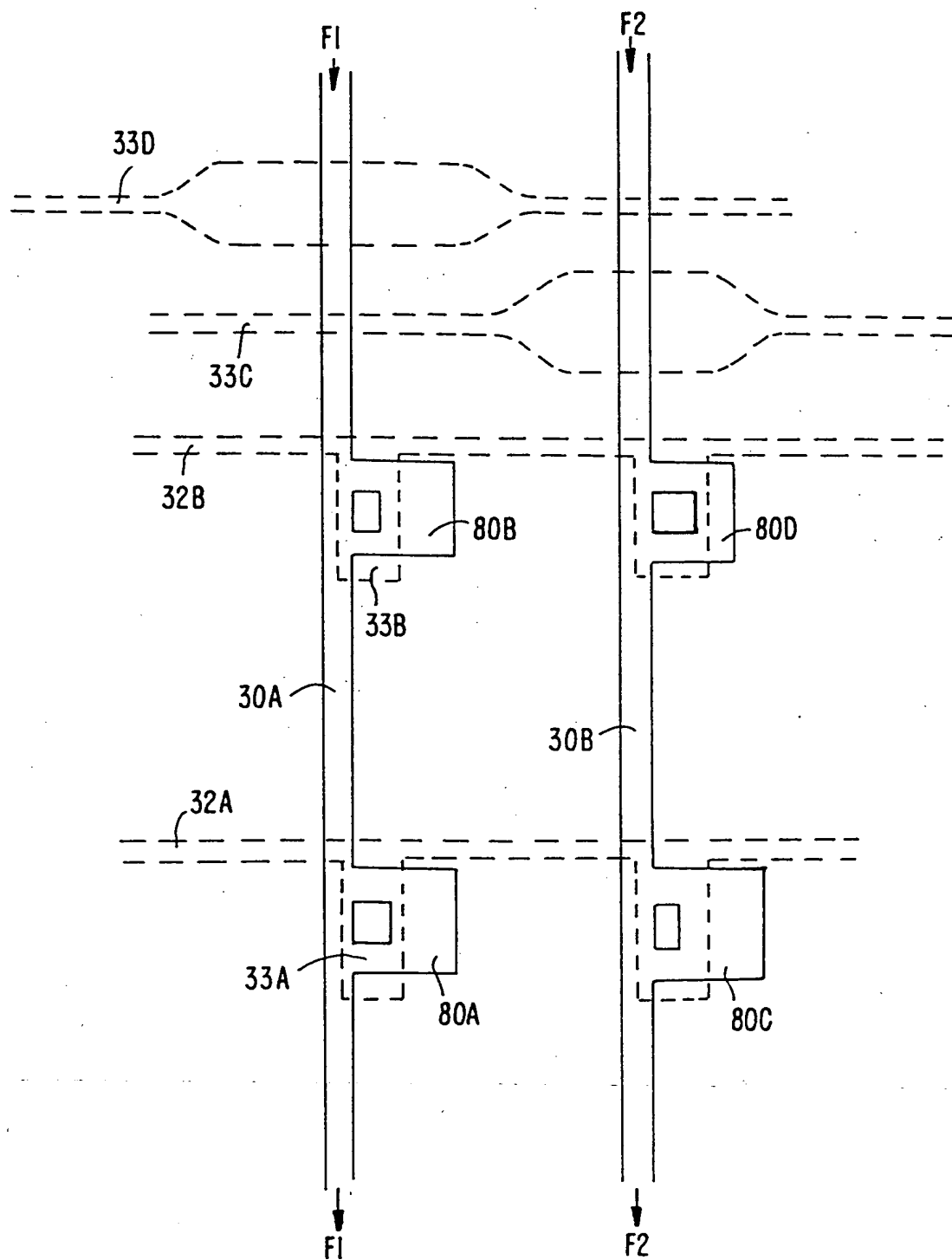


FIG. 29.

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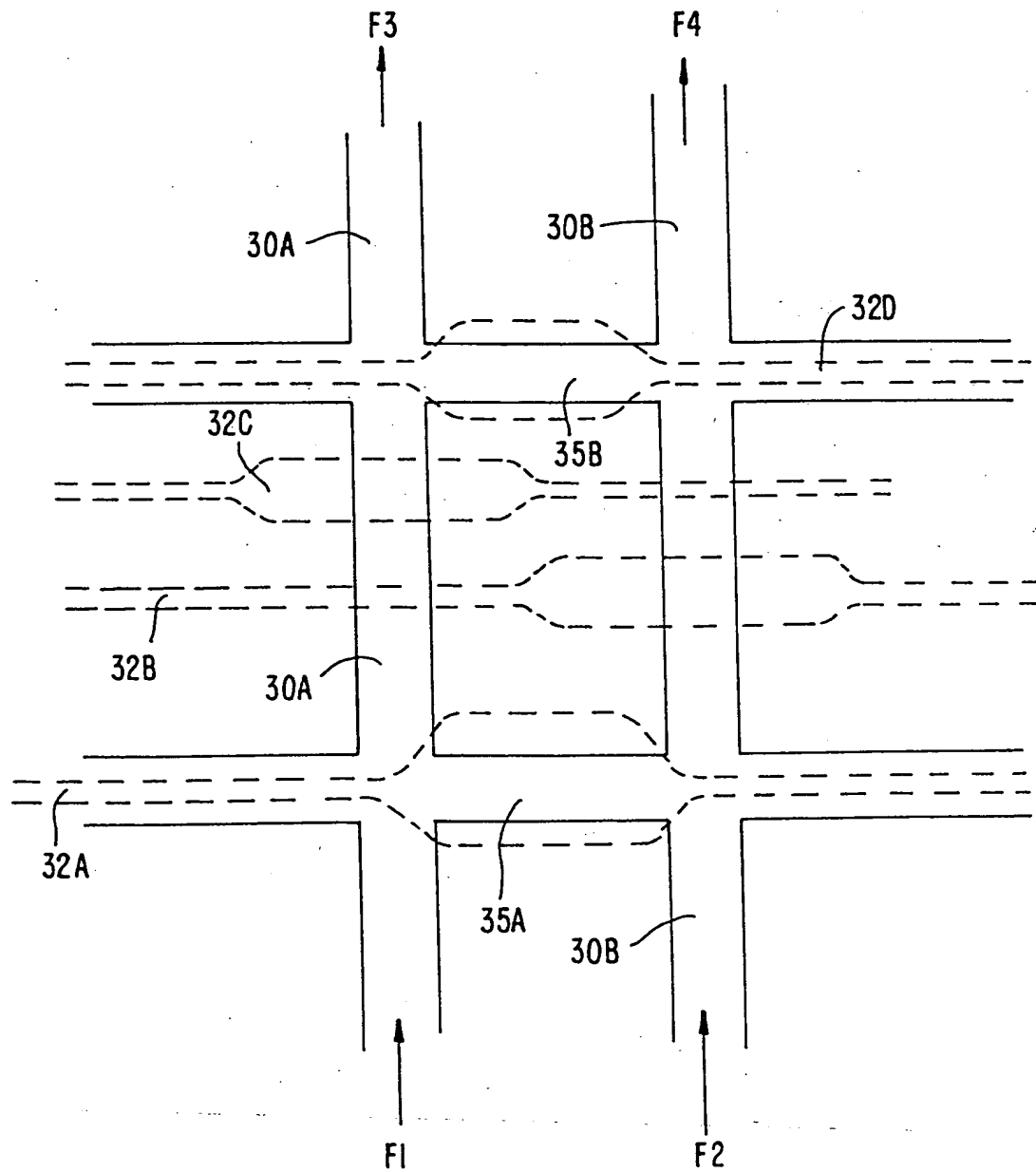


FIG. 30.

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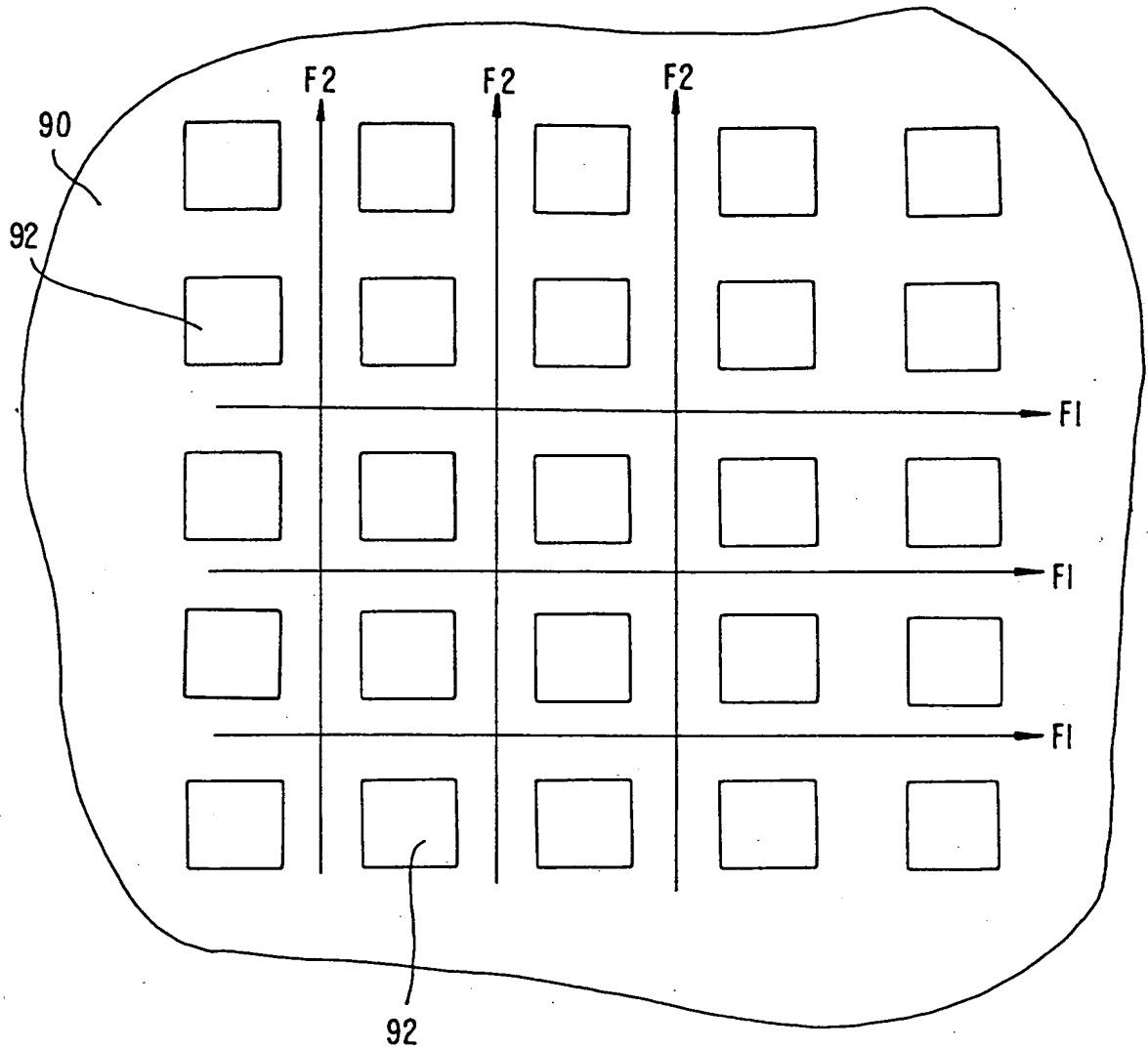


FIG. 31A.

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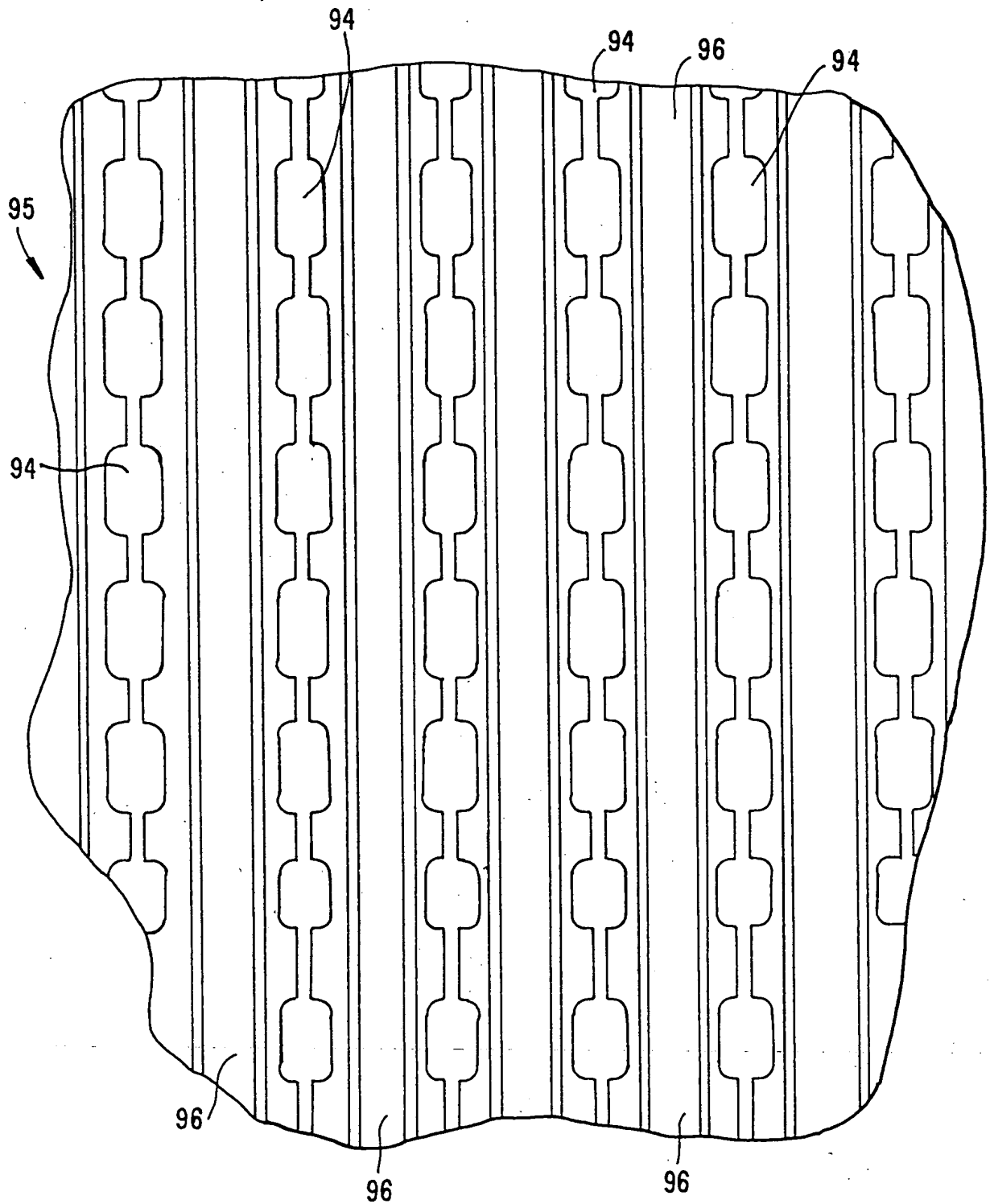


FIG. 31B.

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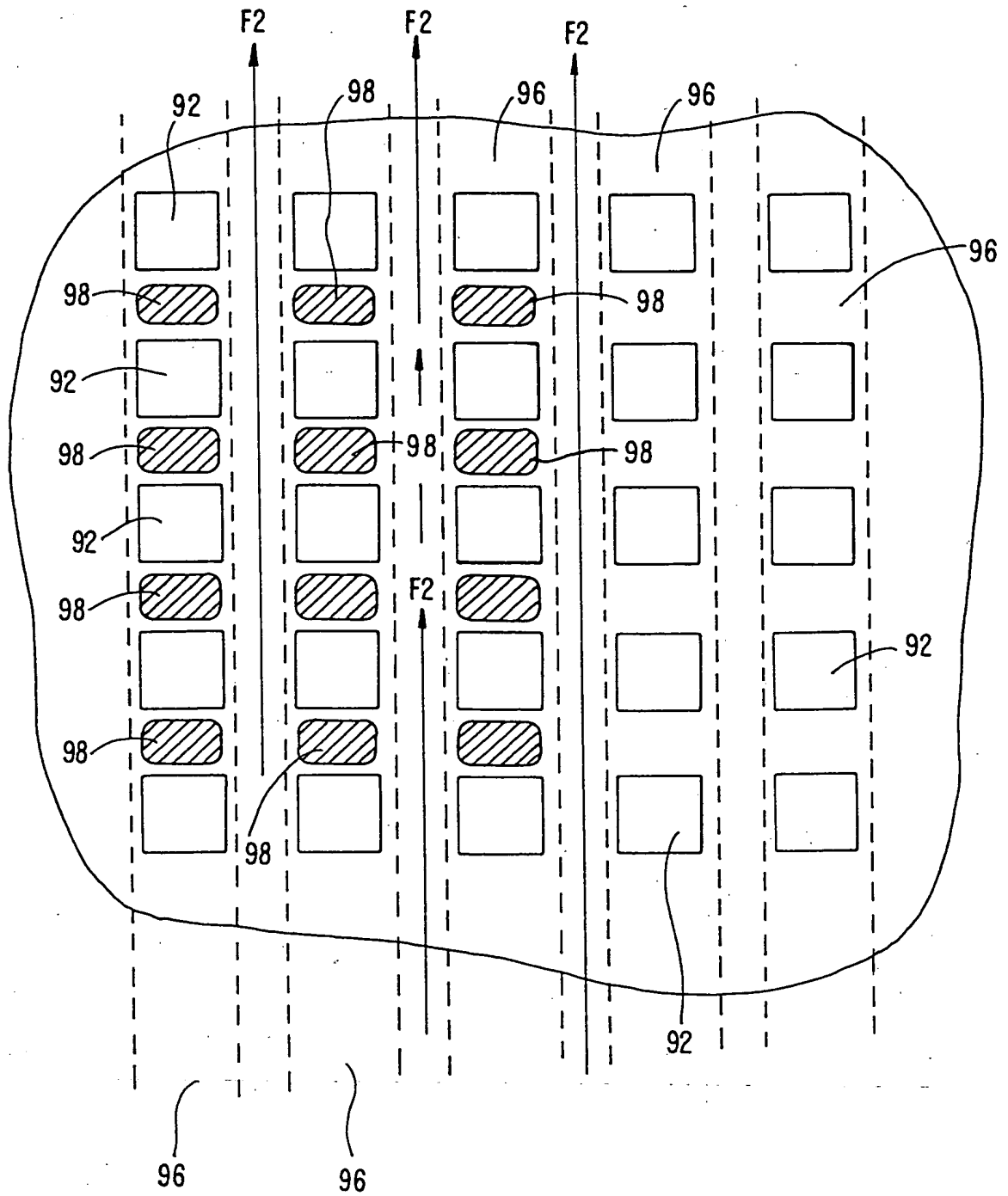


FIG. 31C.

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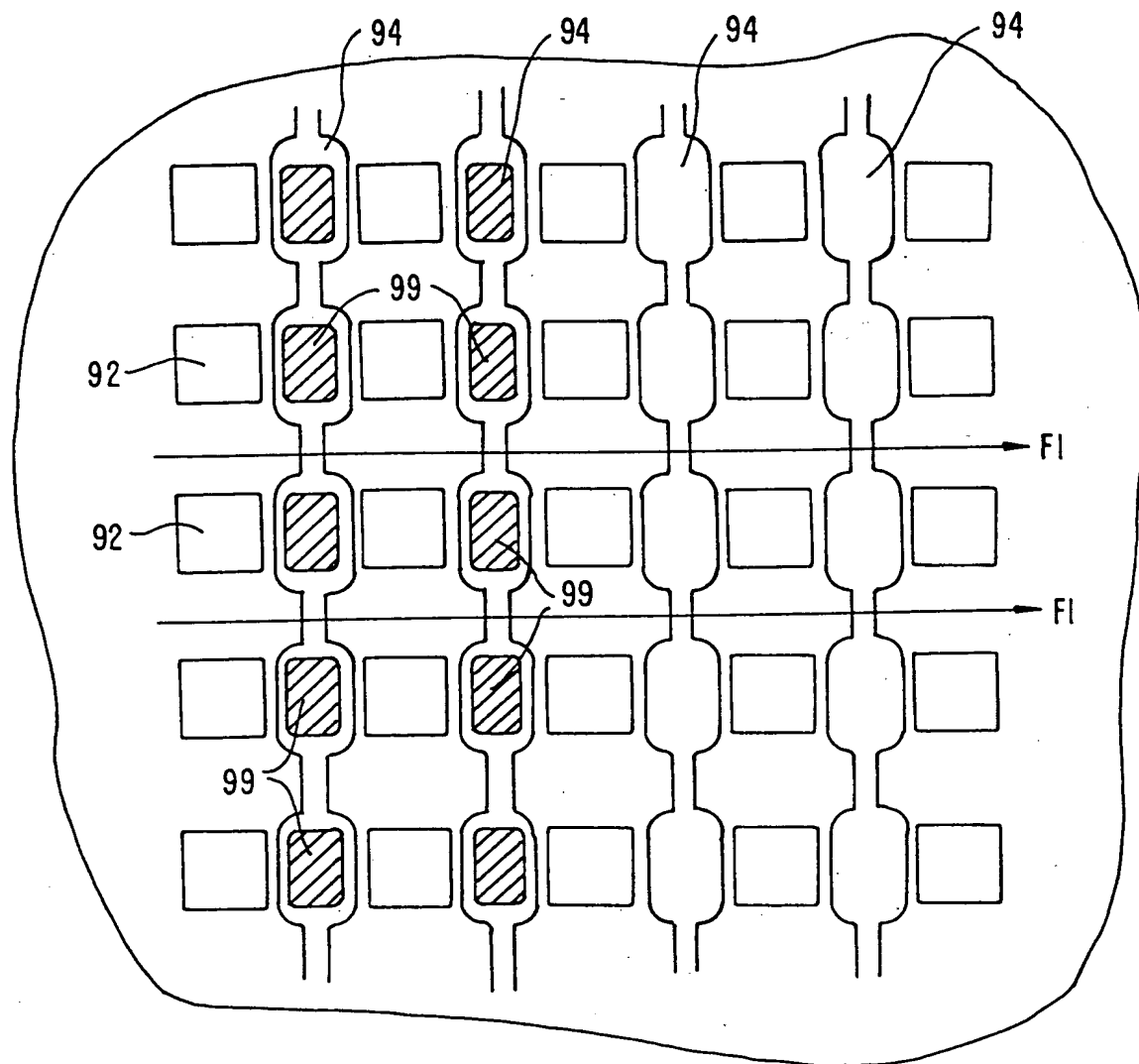


FIG. 31D.

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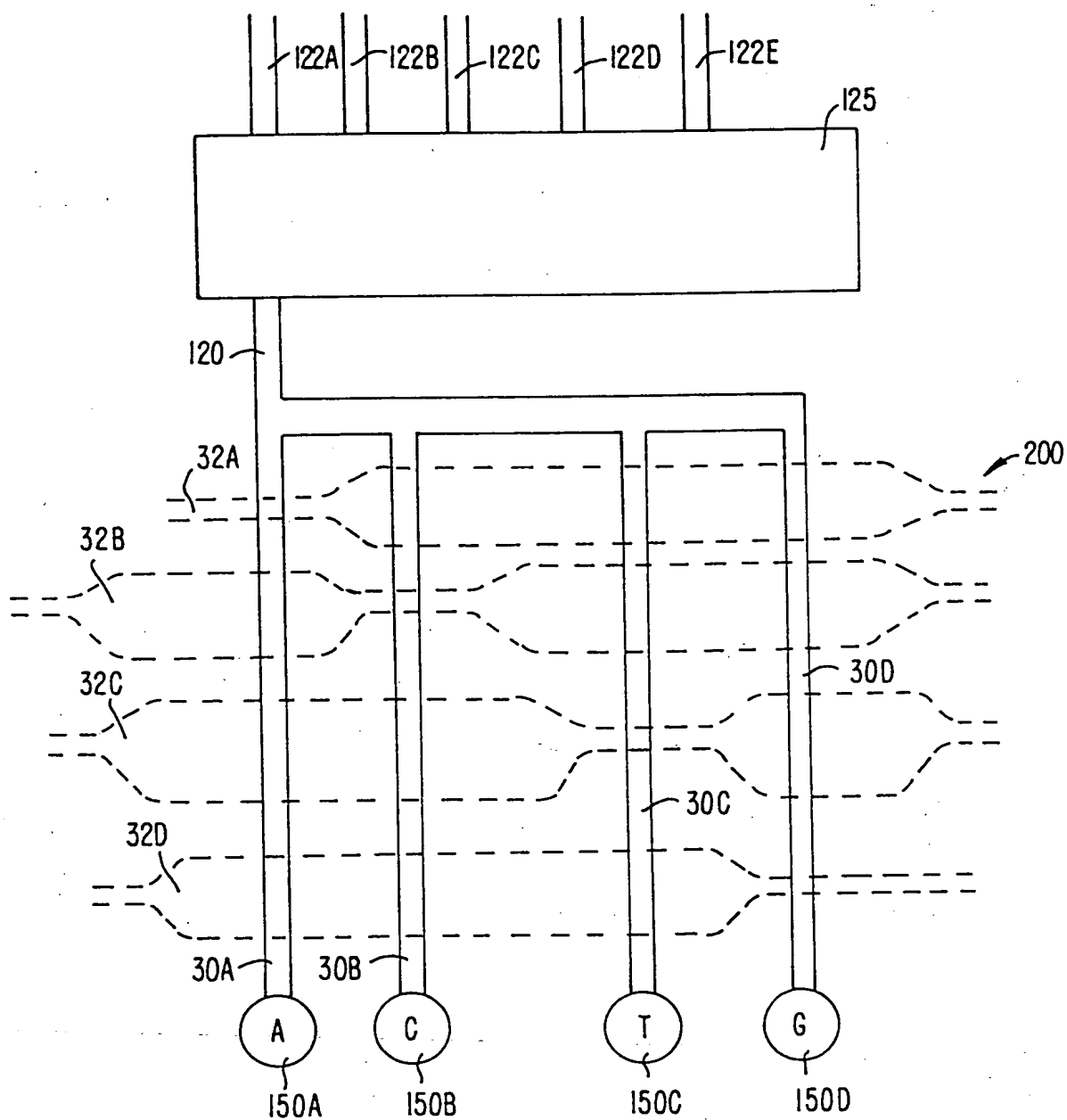


FIG. 32.

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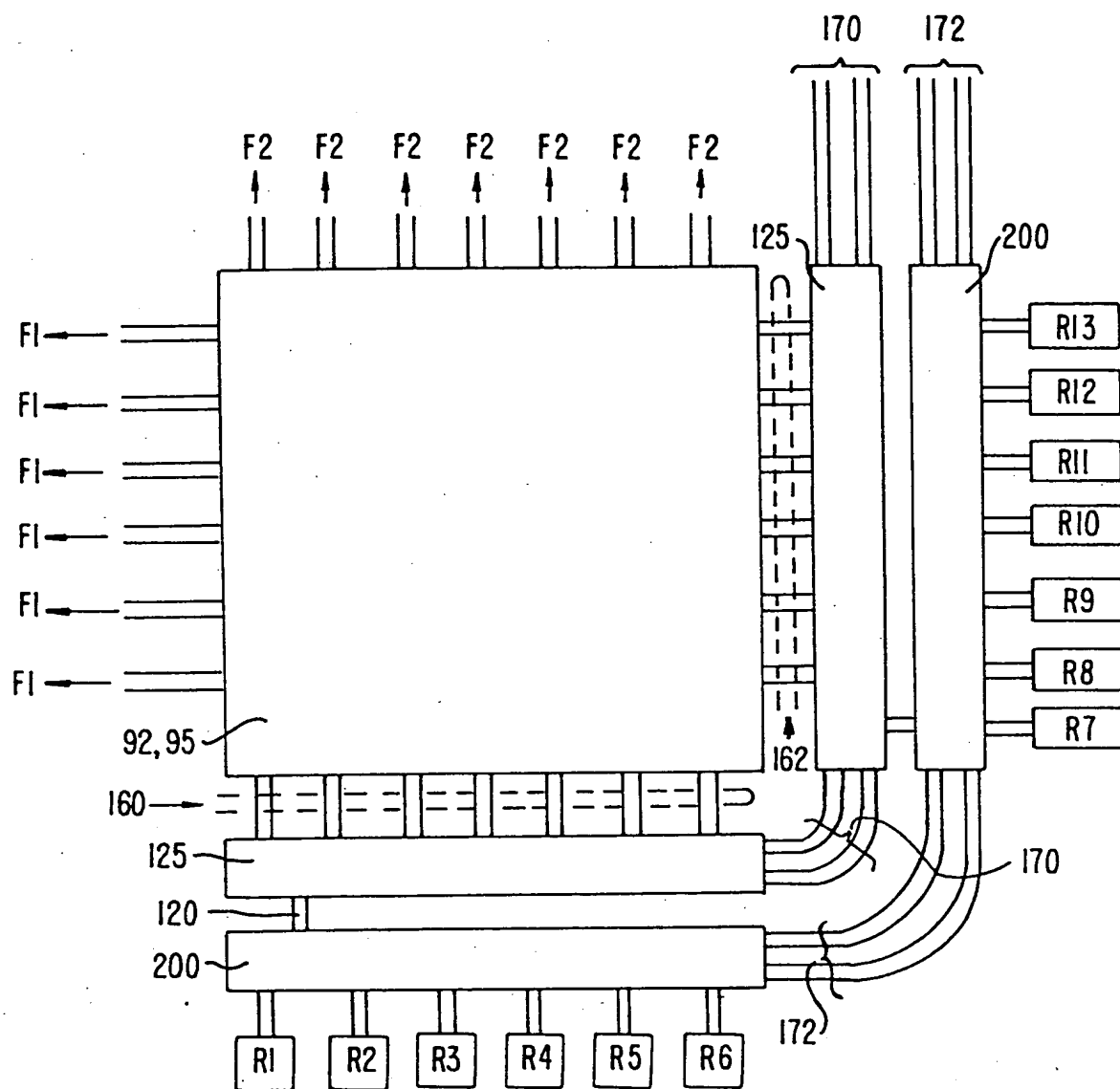


FIG. 33.

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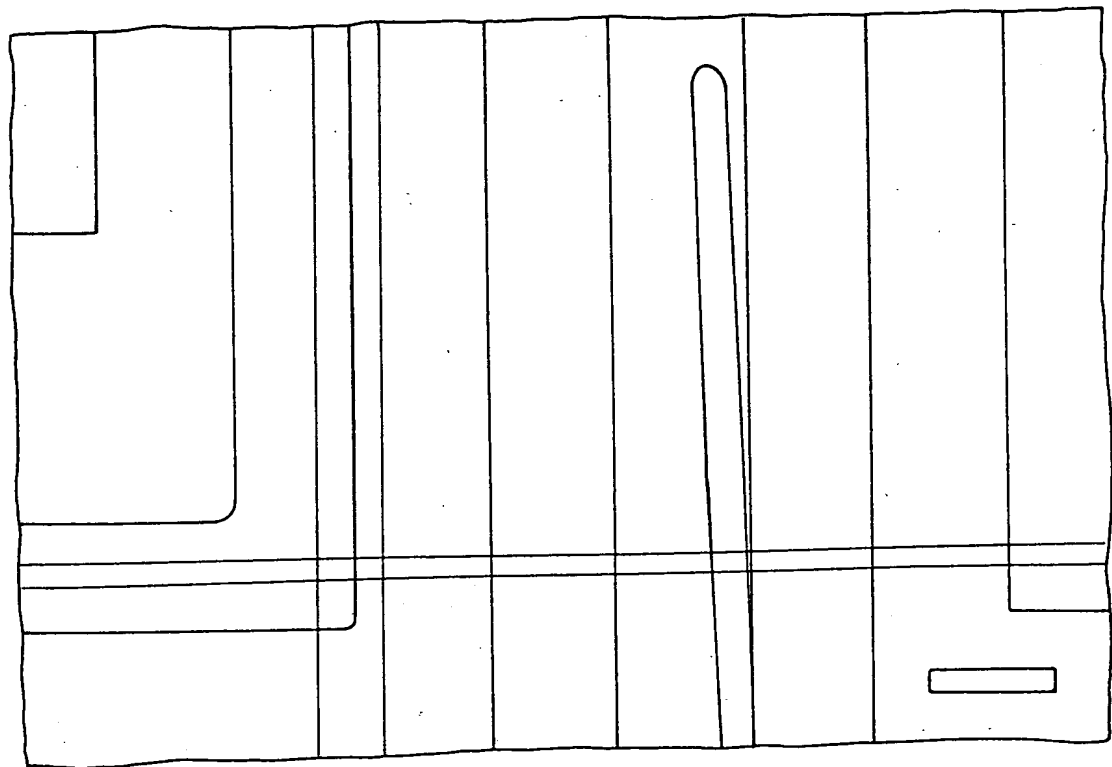
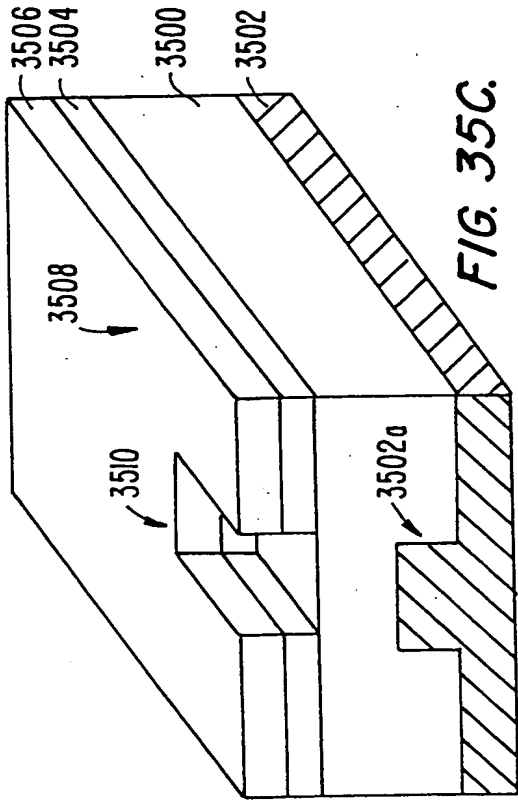
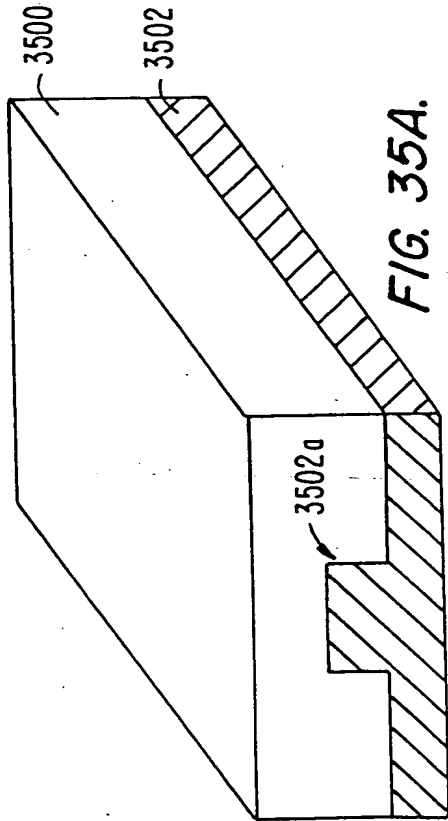
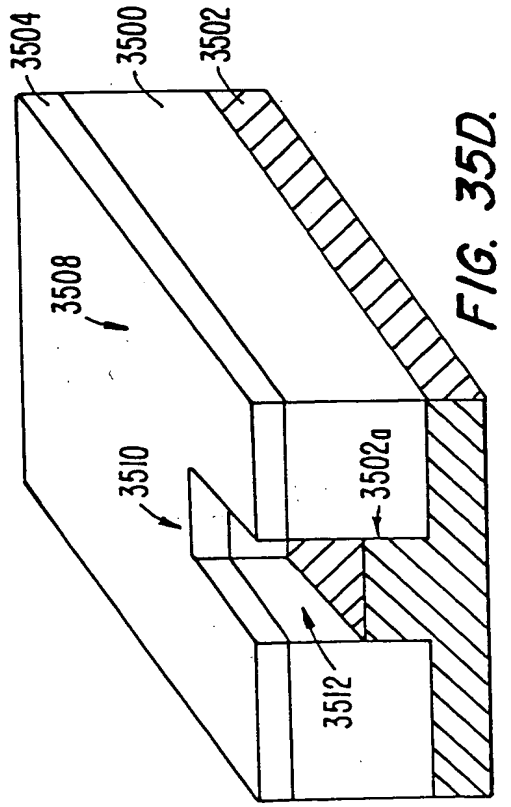
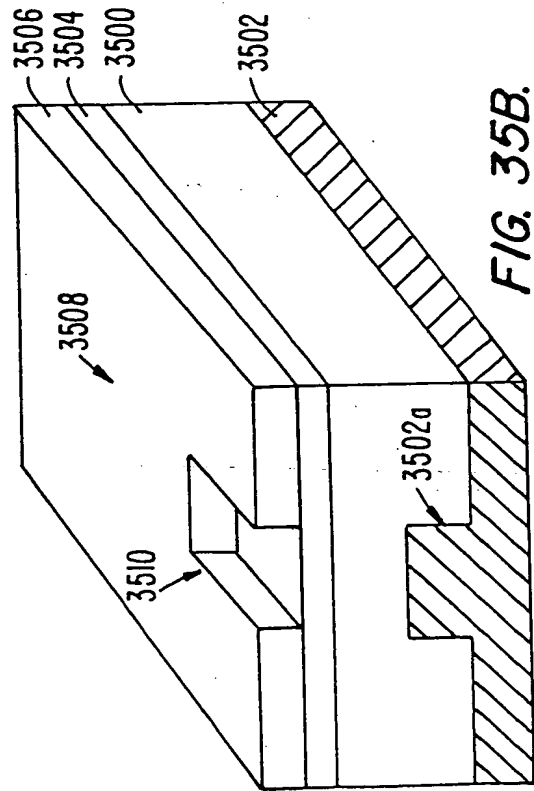


FIG. 34.



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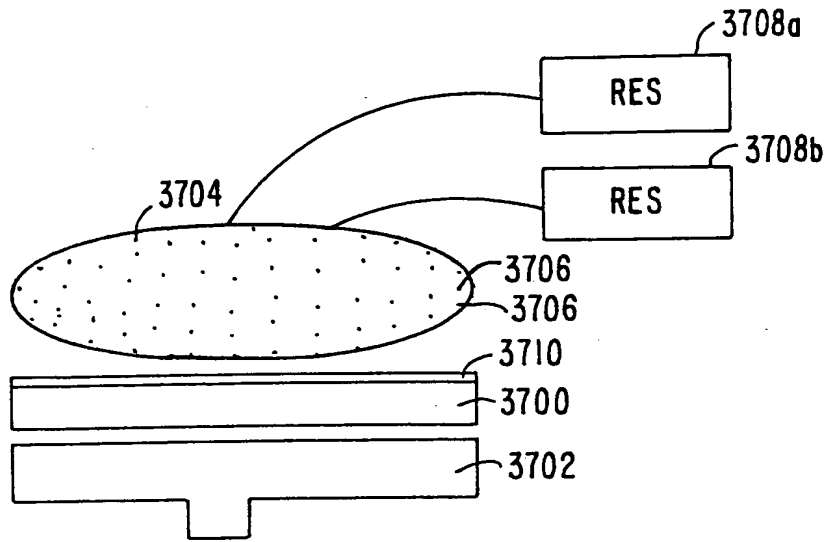


FIG. 37.

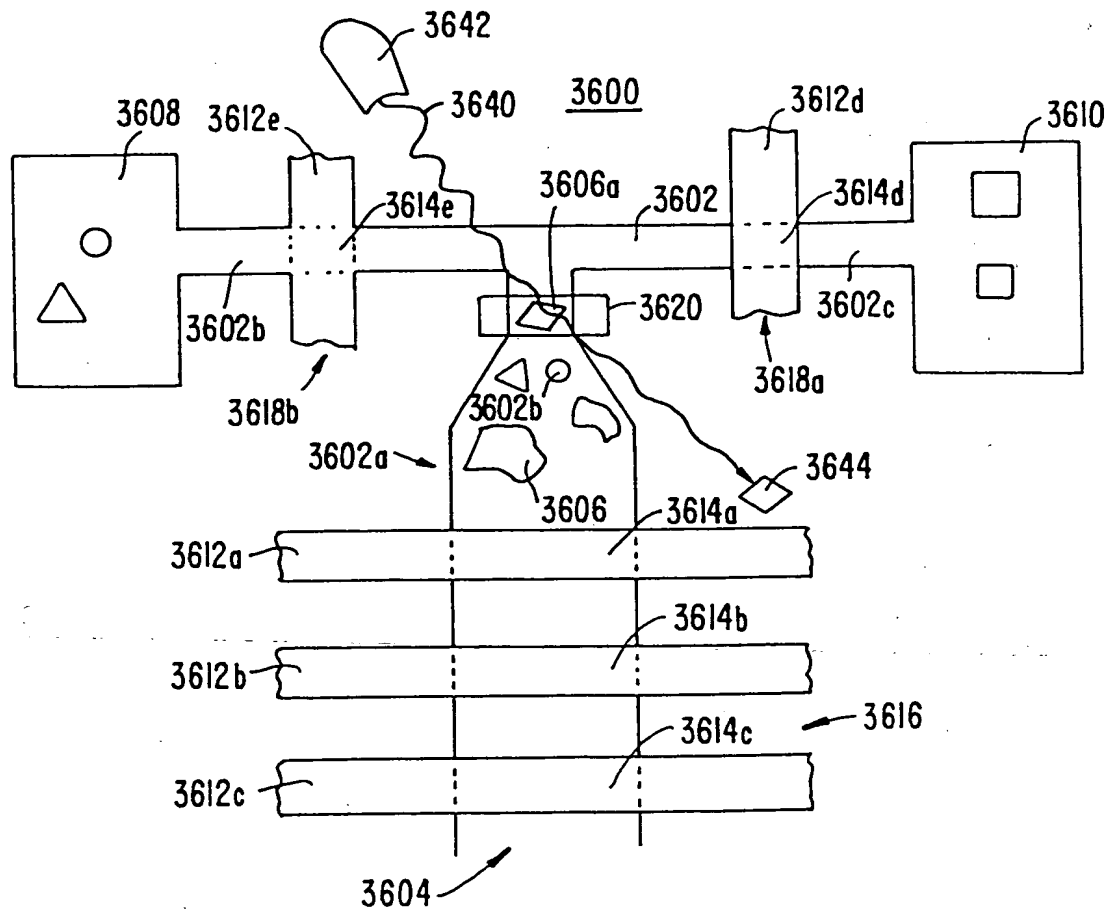


FIG. 36.

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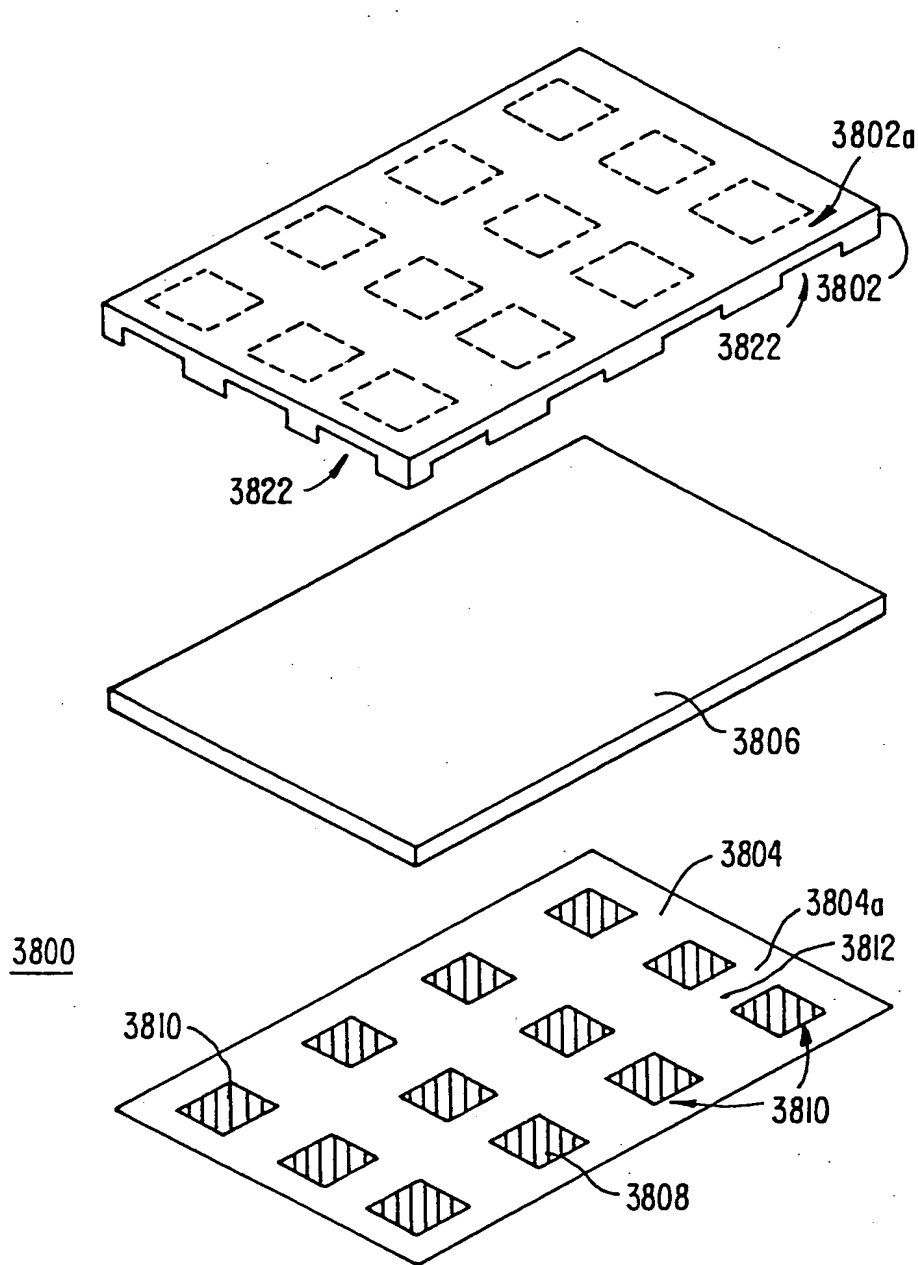


FIG. 38A.

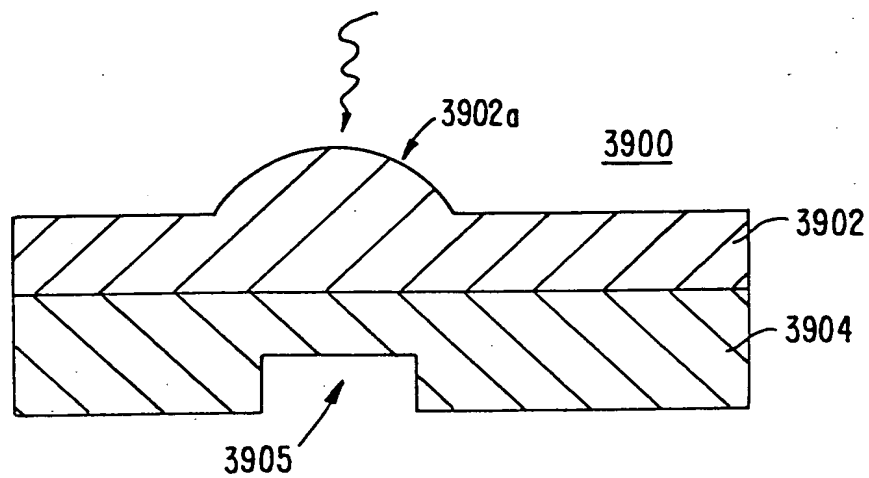


FIG. 39.

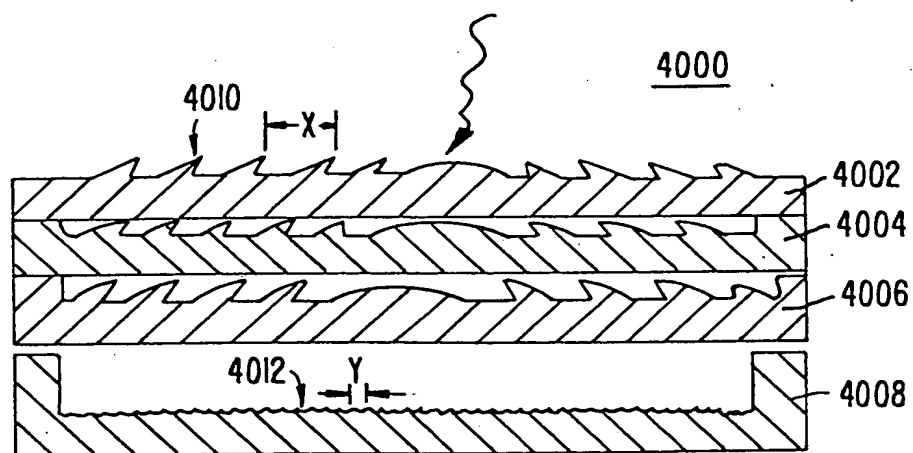


FIG. 40.

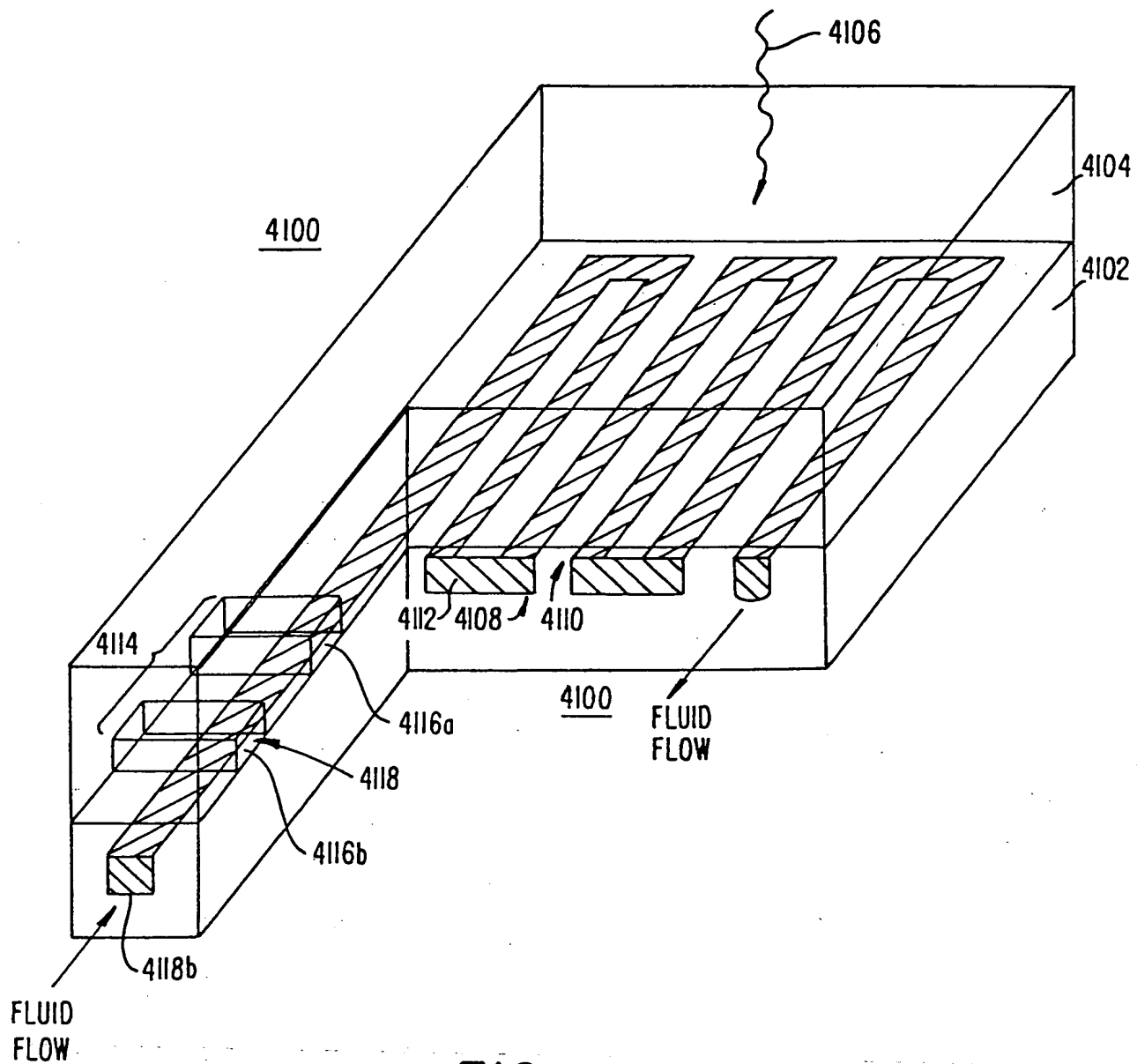


FIG. 41.

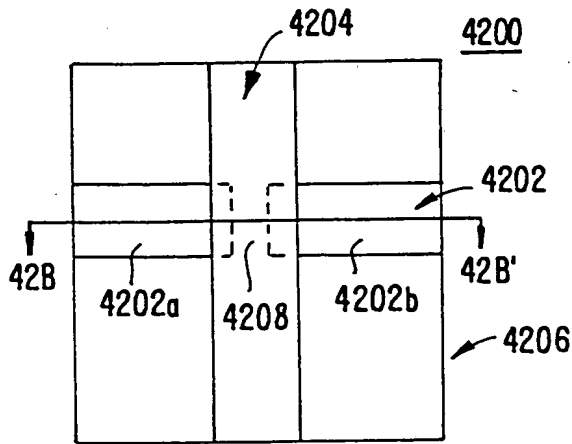


FIG. 42A.

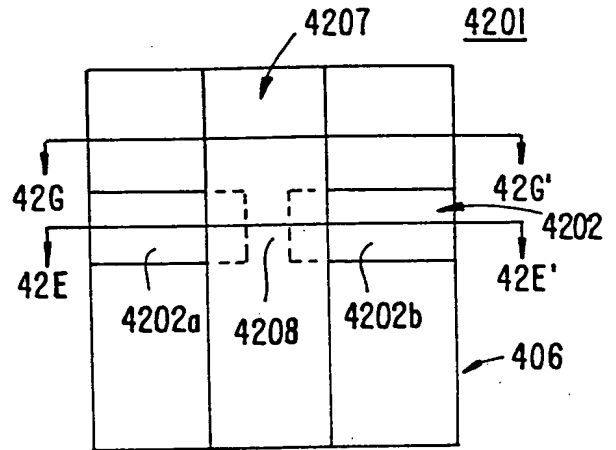


FIG. 42D.

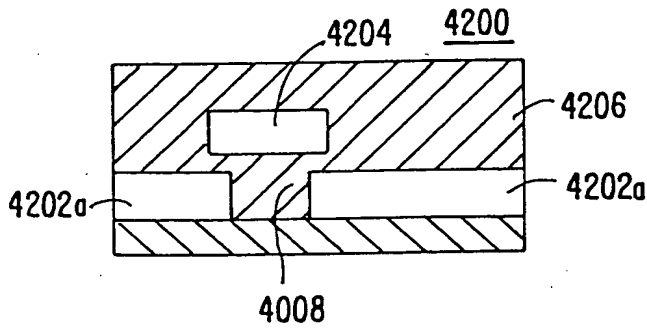


FIG. 42B.

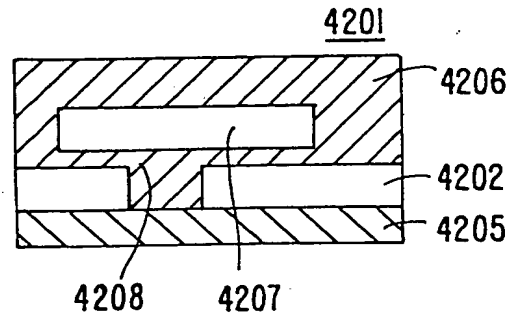


FIG. 42E.

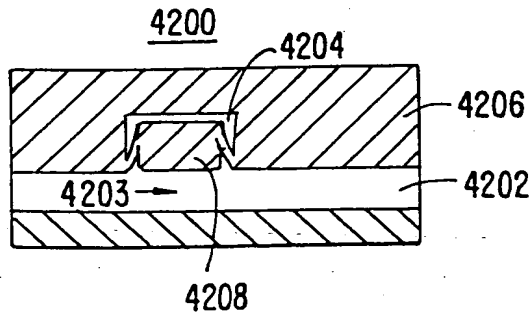


FIG. 42C.

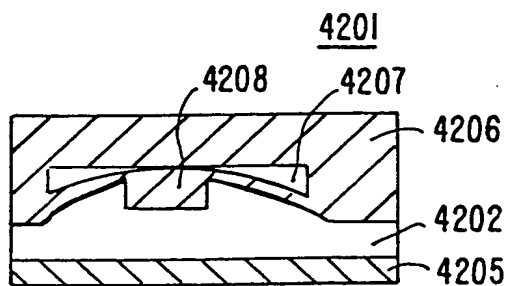


FIG. 42F.

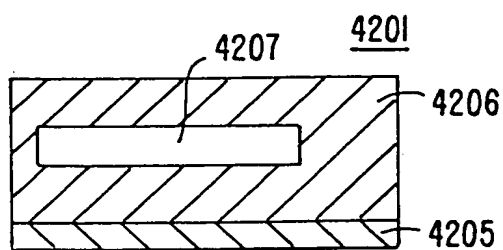


FIG. 42G.

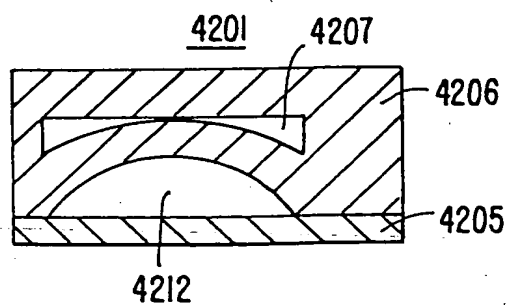


FIG. 42H.

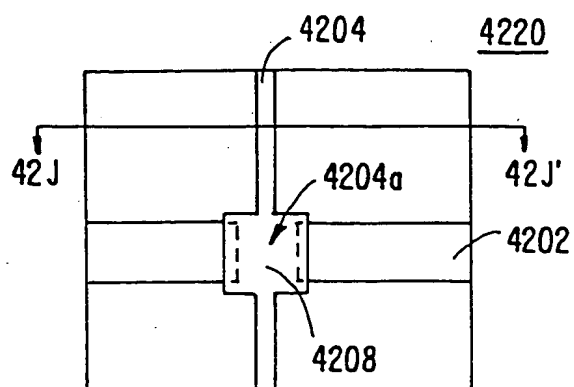


FIG. 42I.

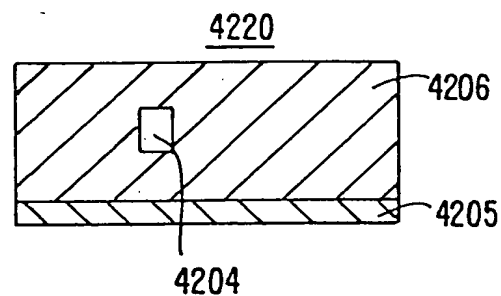


FIG. 42J.

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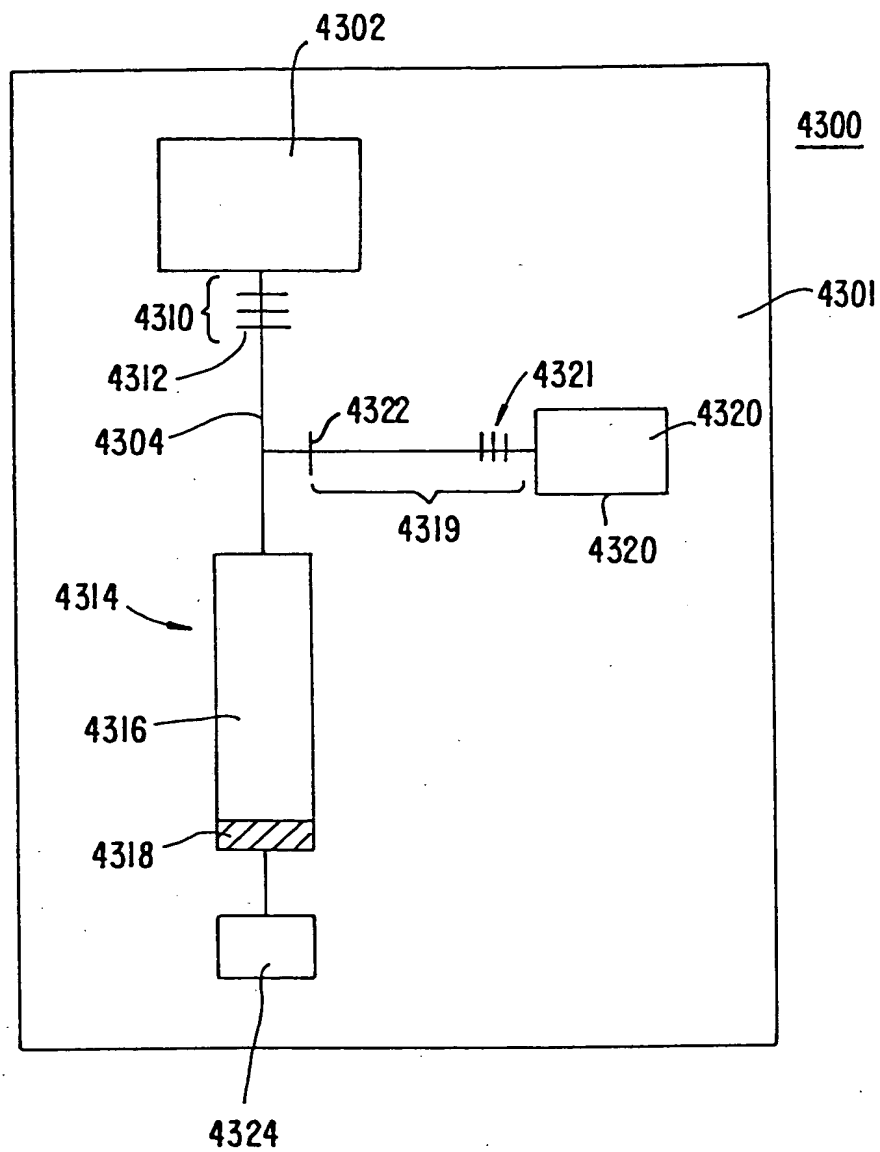


FIG. 43.

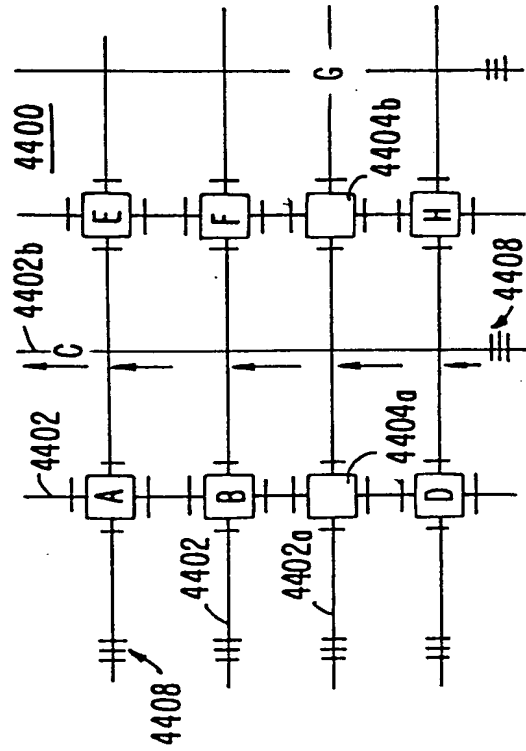


FIG. 44C.

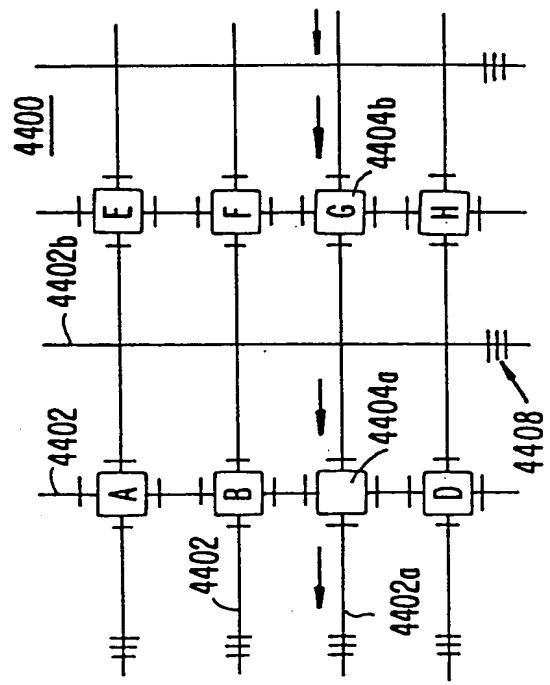


FIG. 44D.

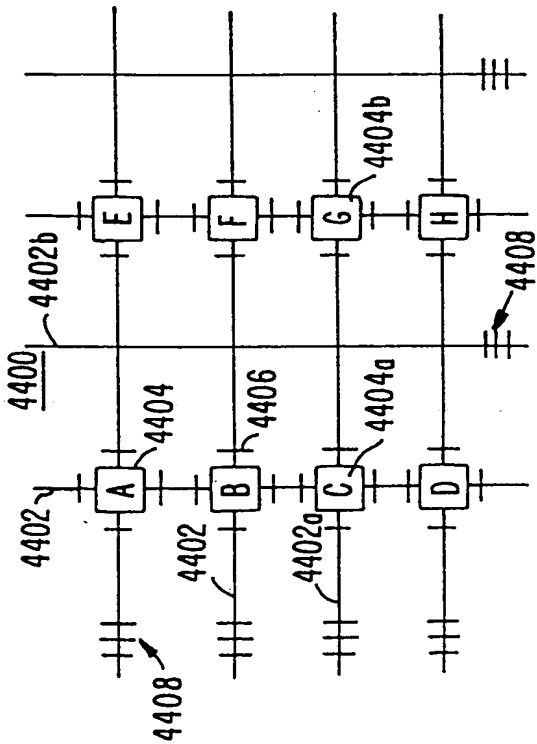


FIG. 44A.

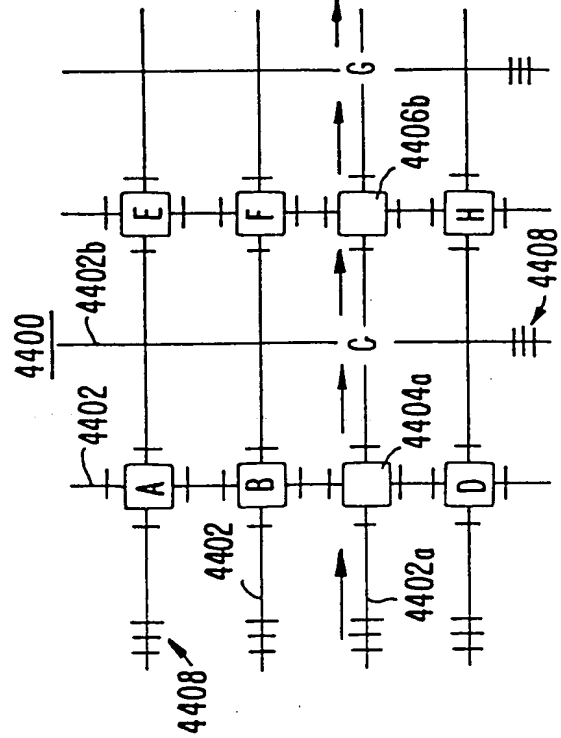


FIG. 44B.

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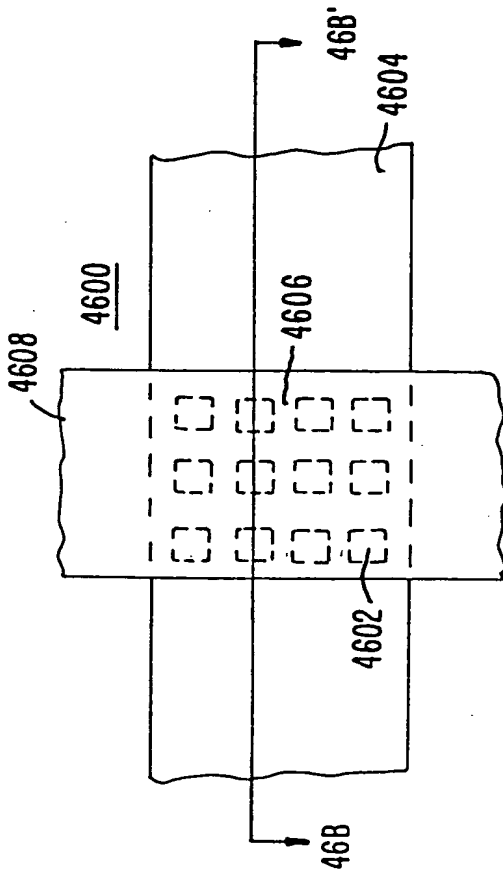


FIG. 46A.

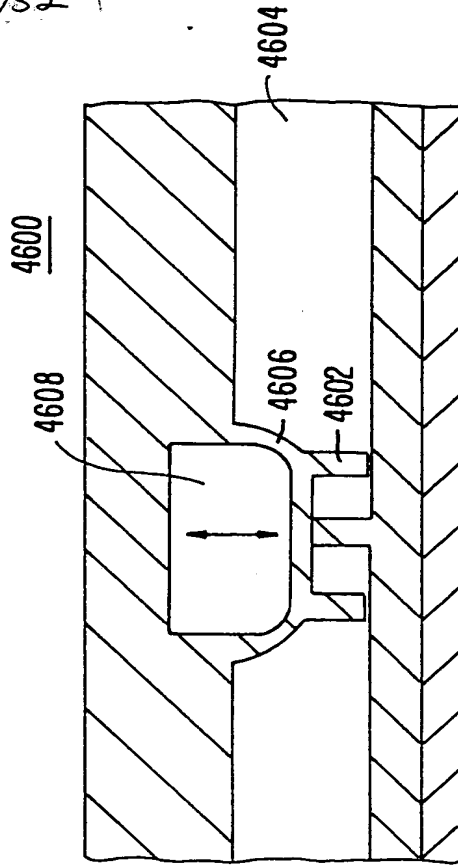


FIG. 46B.

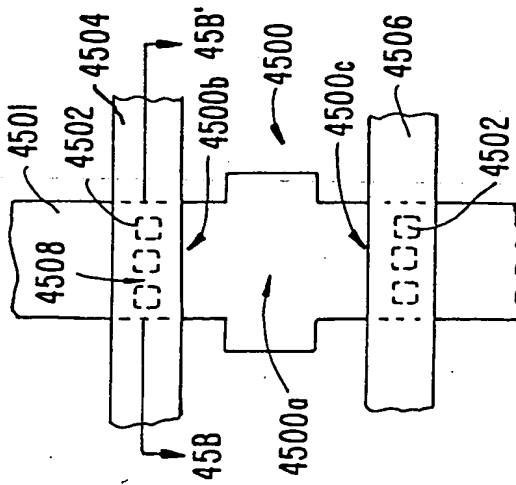


FIG. 45A.

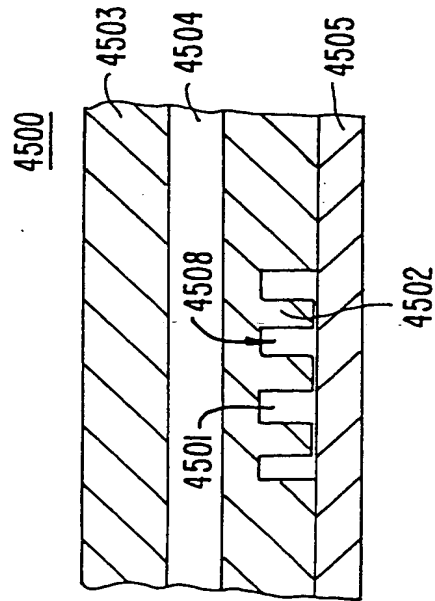


FIG. 45B.

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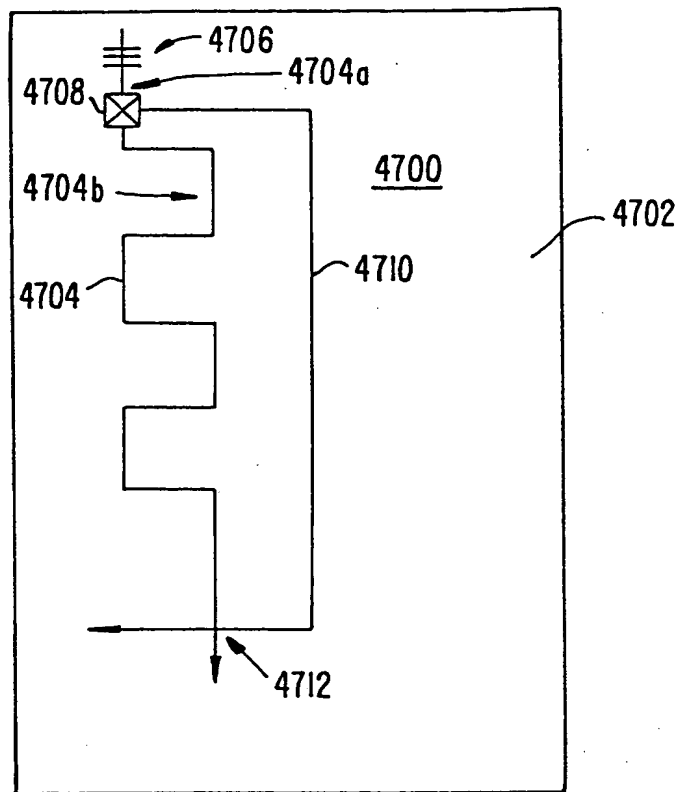


FIG. 47.

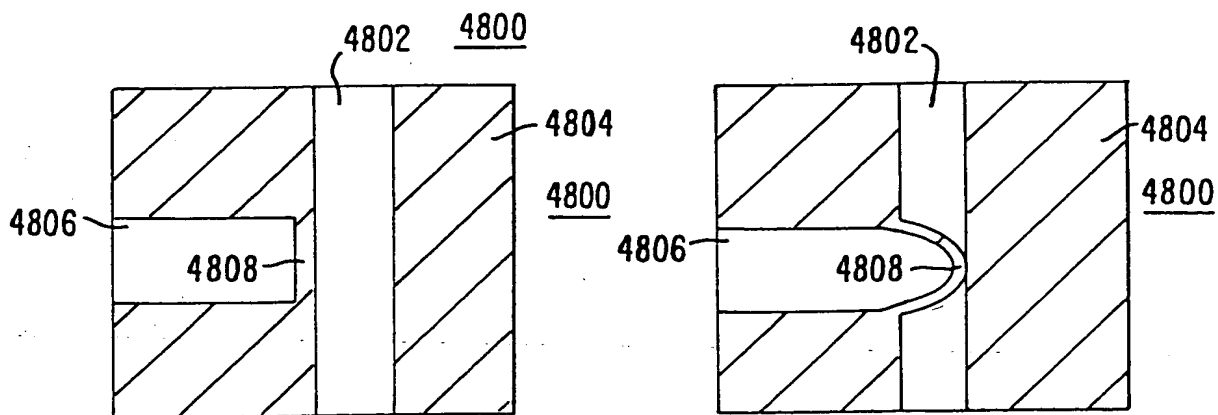


FIG. 48A.

FIG. 48B.

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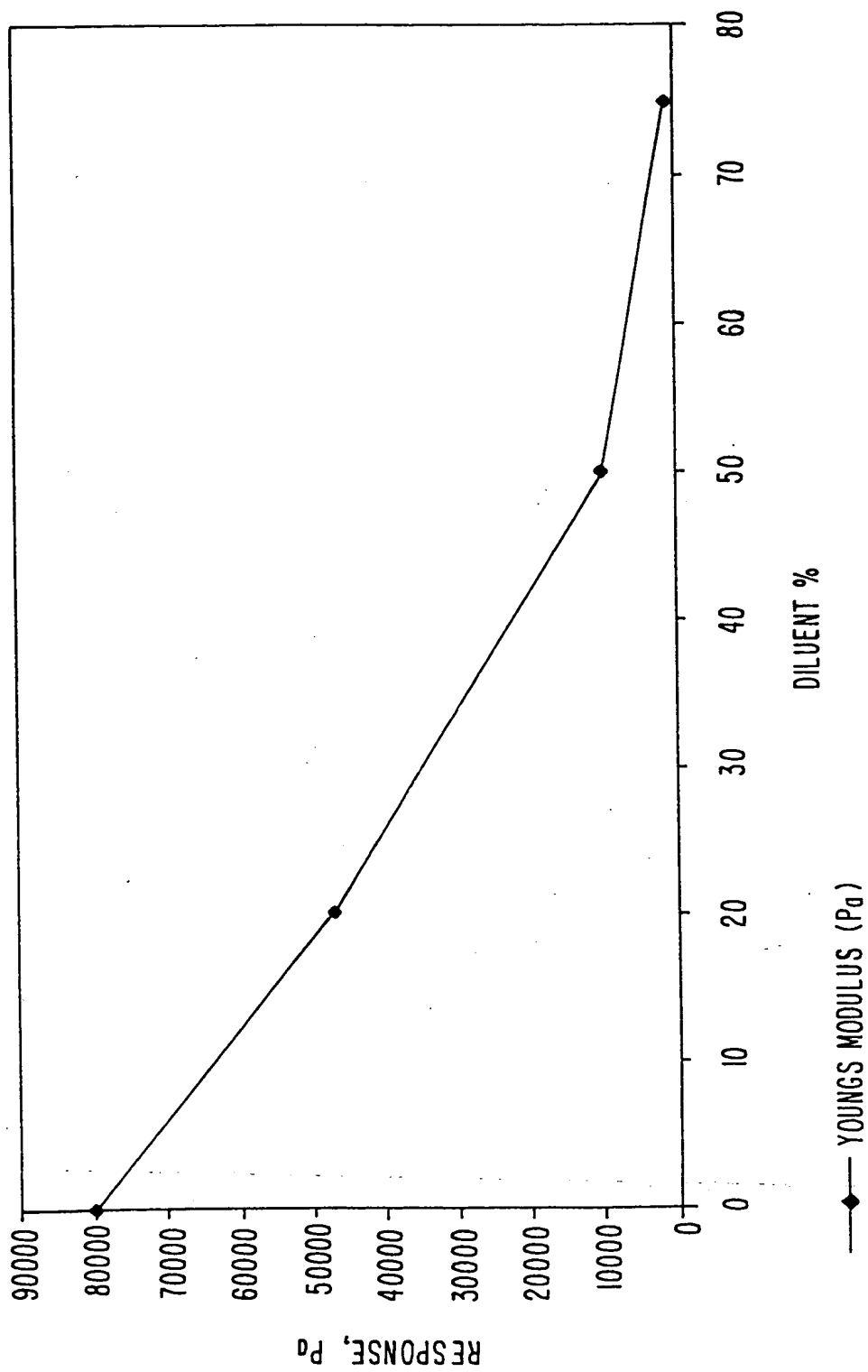


FIG. 49.

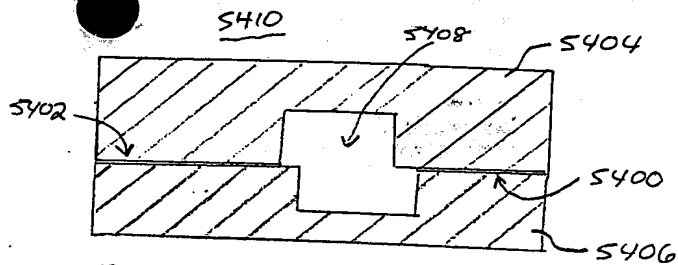


FIG. 50

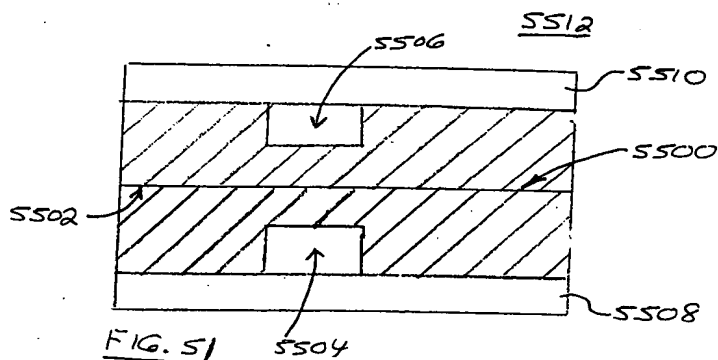


FIG. 51

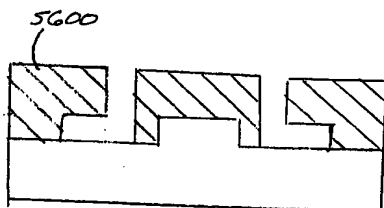


FIG. 52A

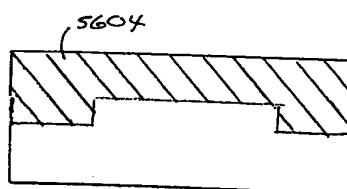


FIG. 52B

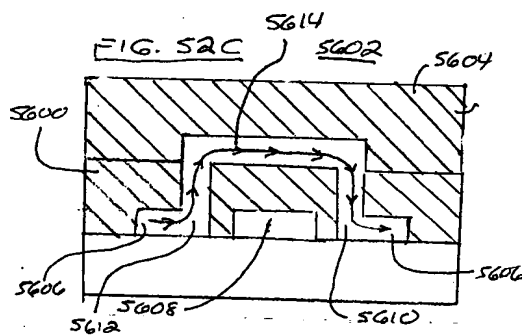


FIG. 52C

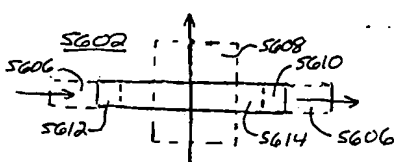


FIG. 52D

FIG. 53

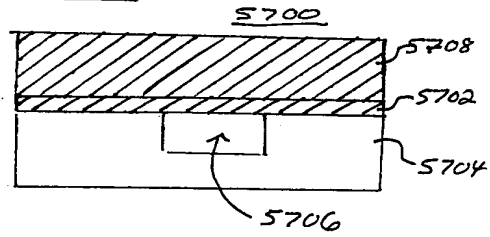


FIG. 54

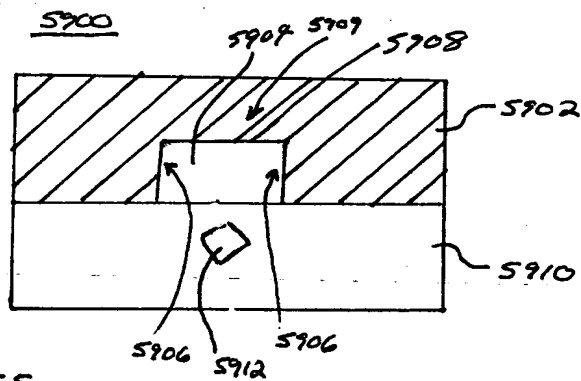
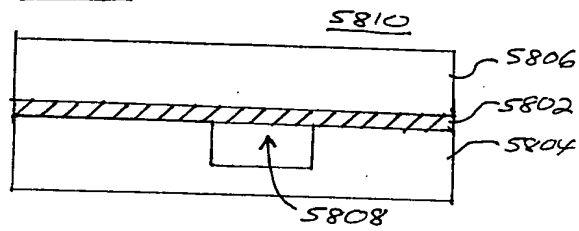


FIG. 55

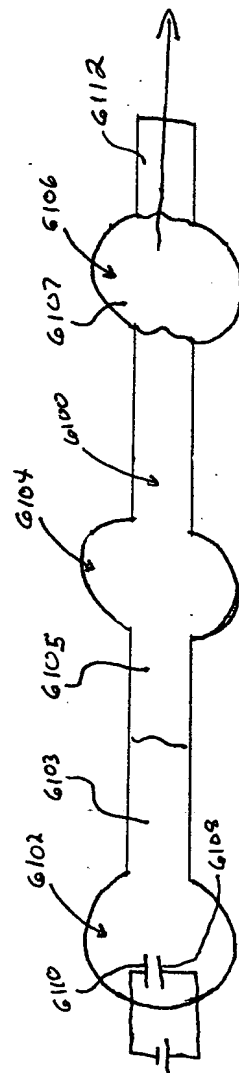
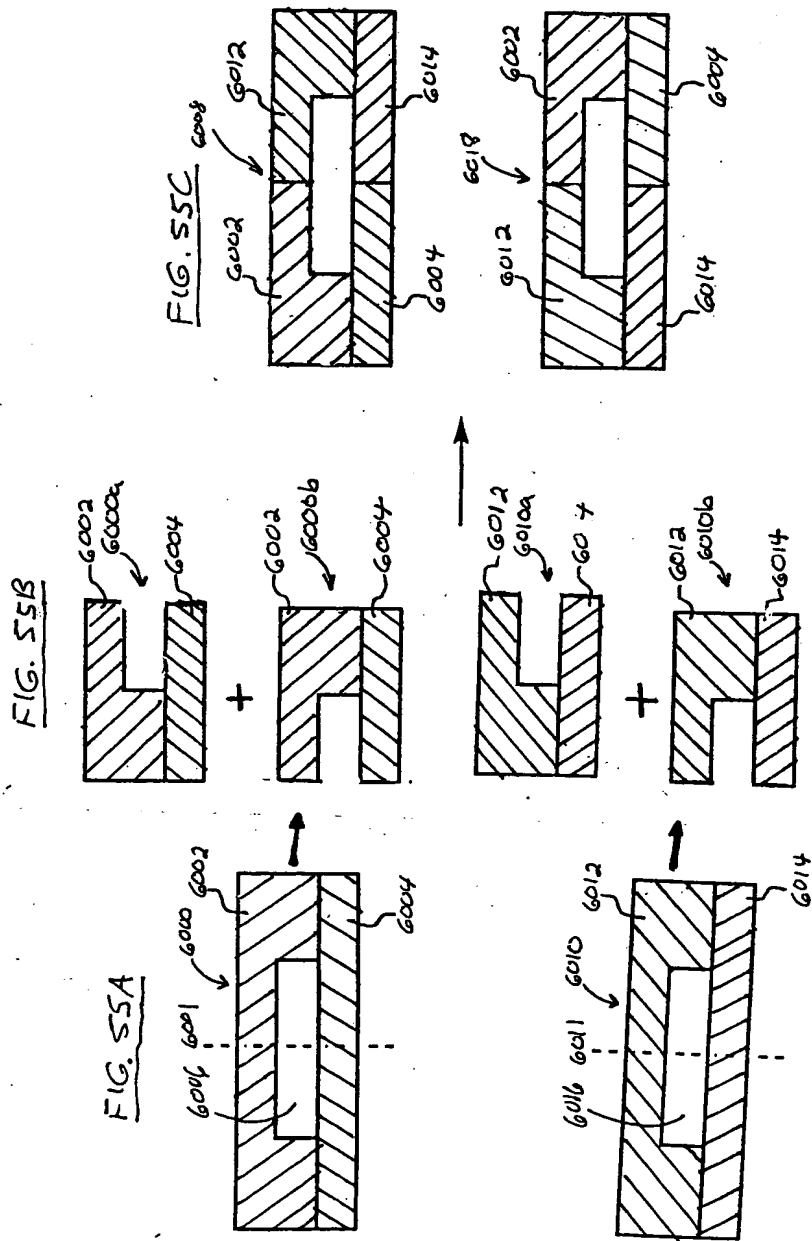
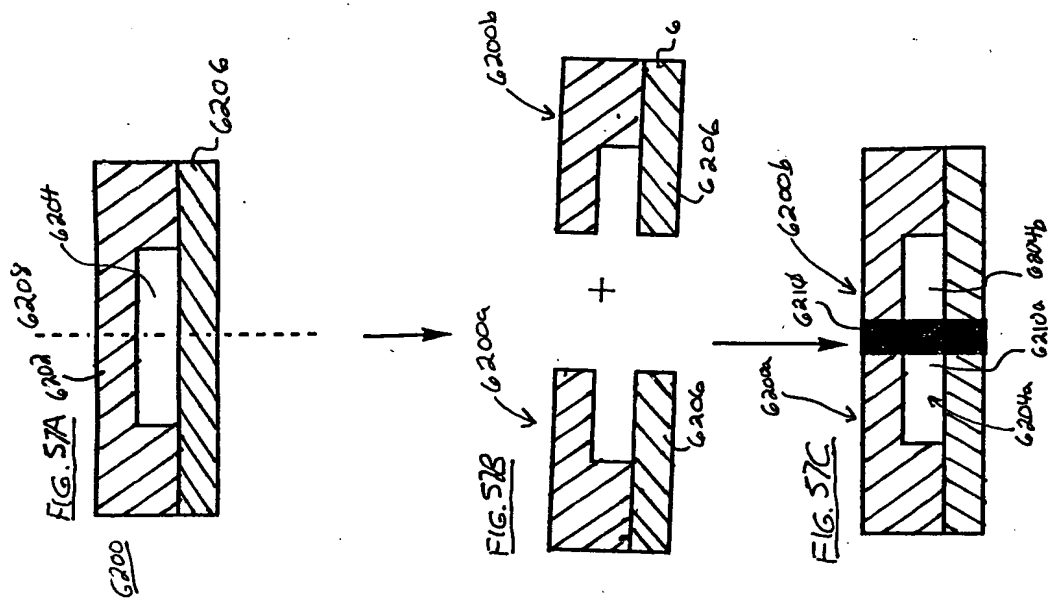


FIG. 56

FIG. 58A

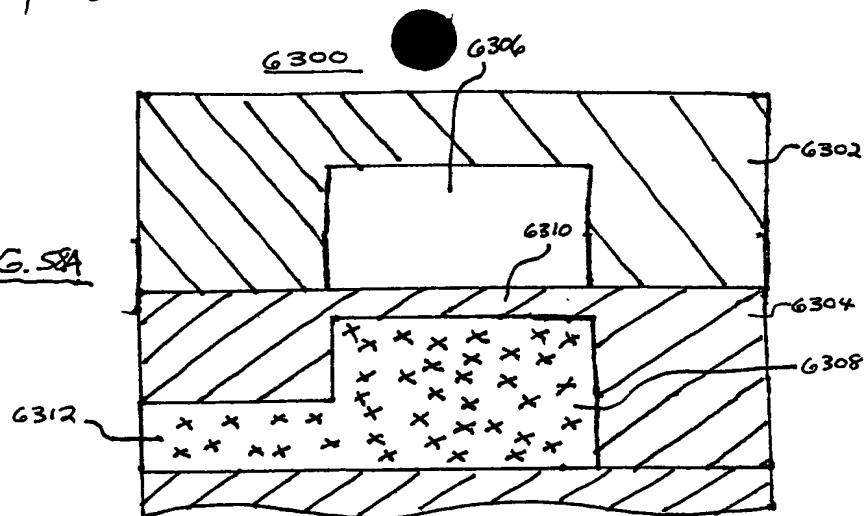


FIG. 58B

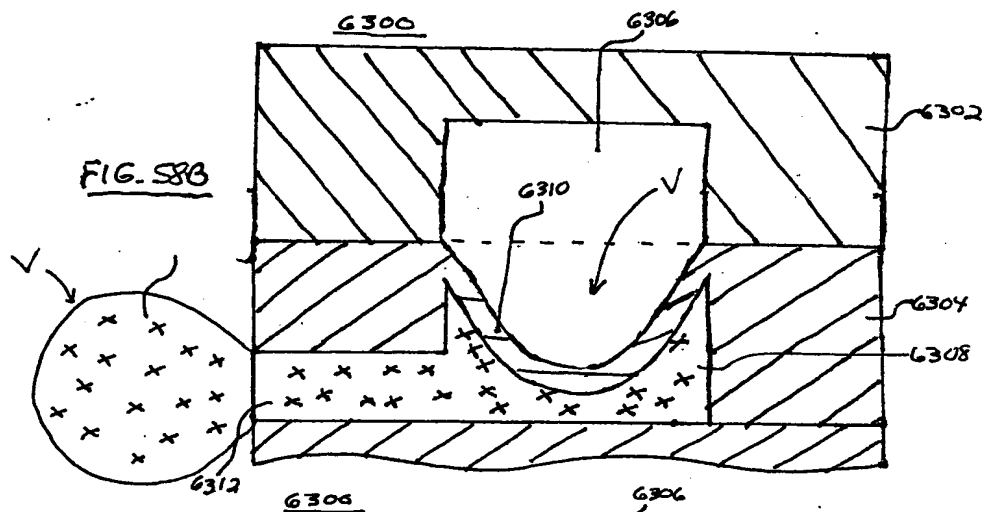


FIG. 58C

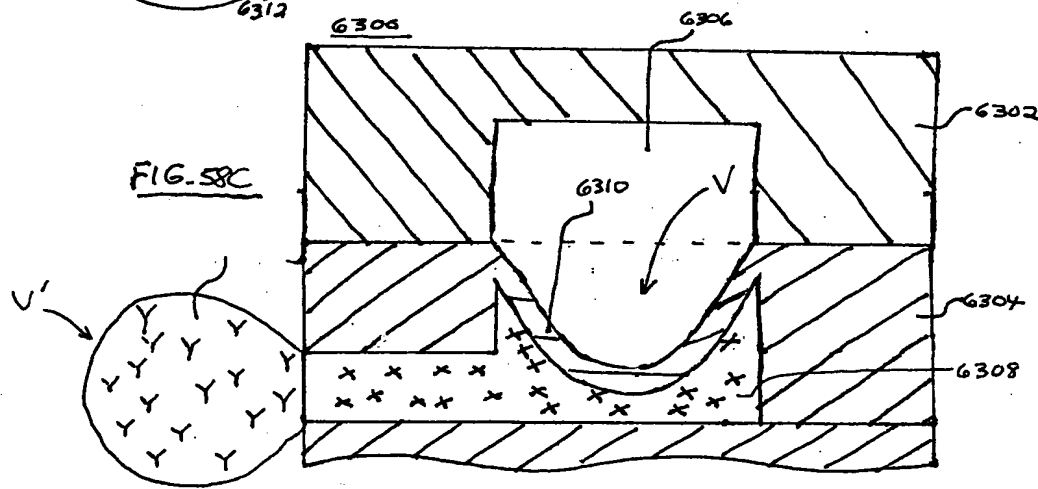
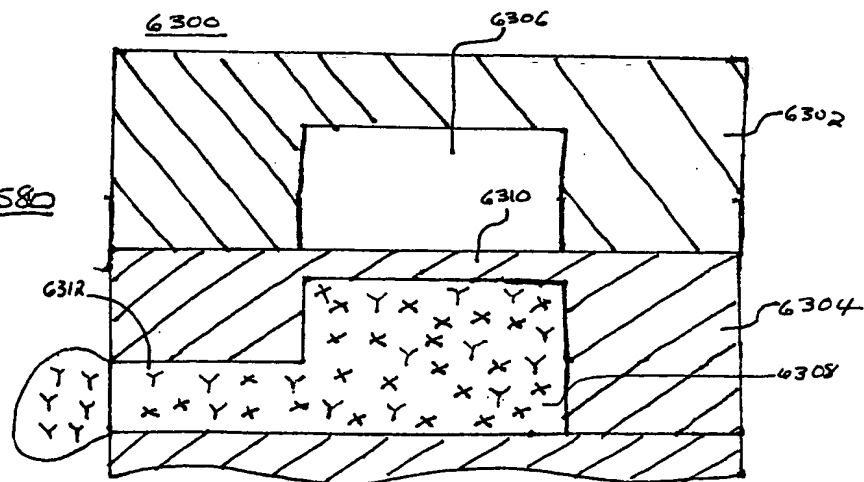


FIG. 58D



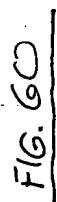


FIG. 60

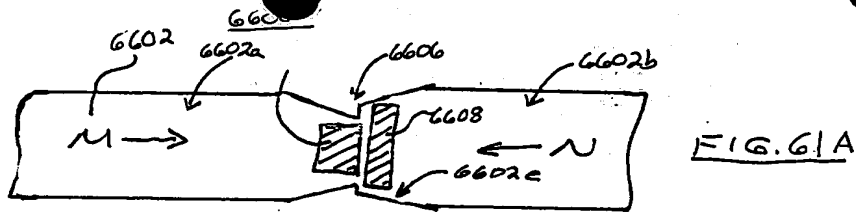


FIG. 61A

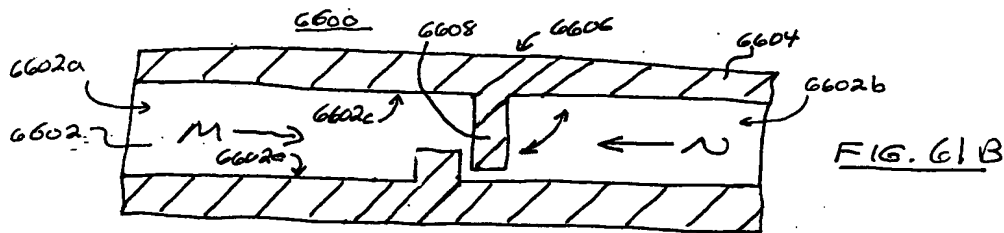


FIG. 61B

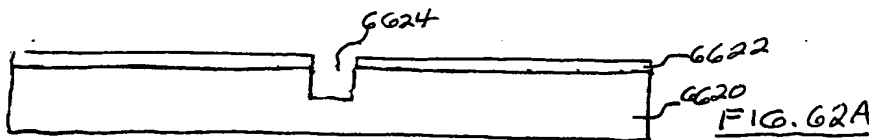


FIG. 62A

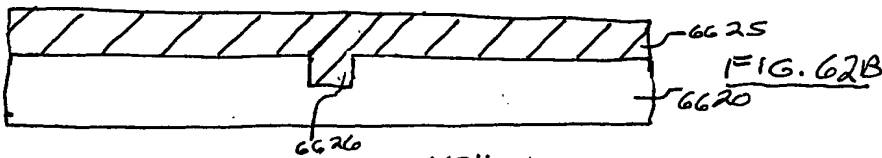


FIG. 62B

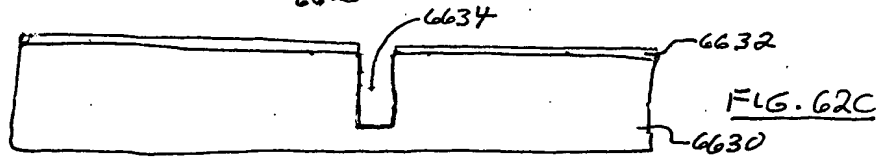


FIG. 62C

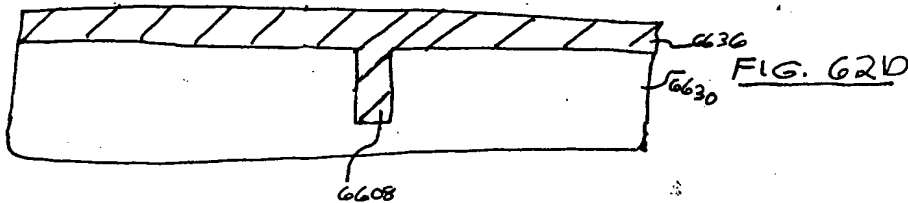


FIG. 62D

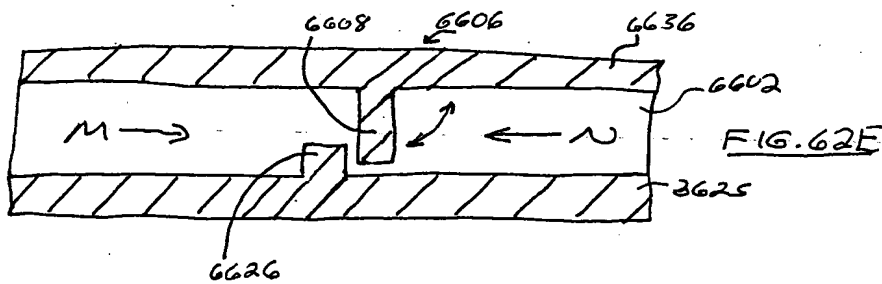
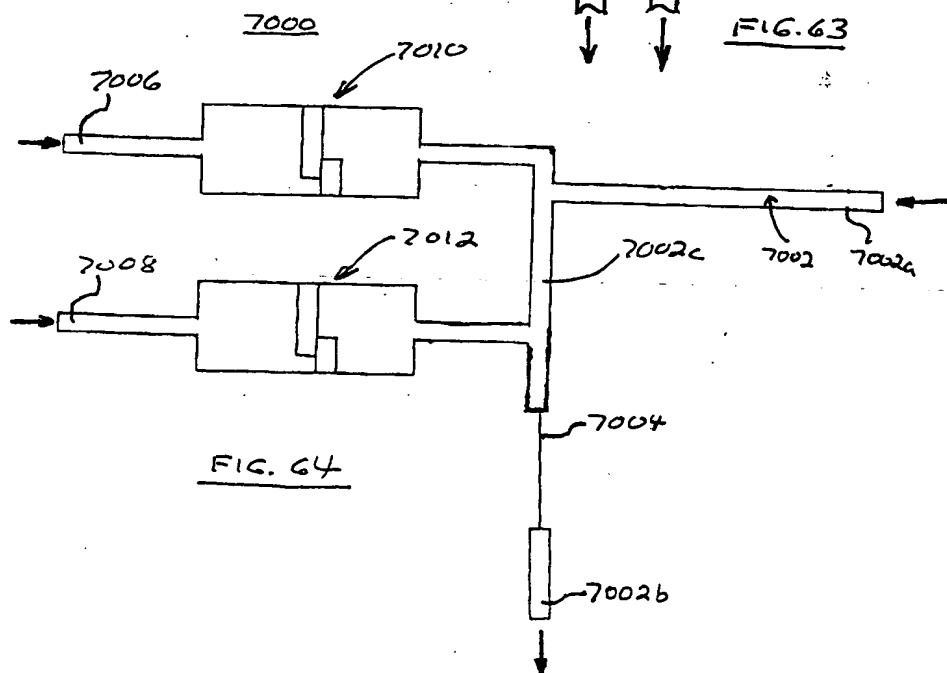
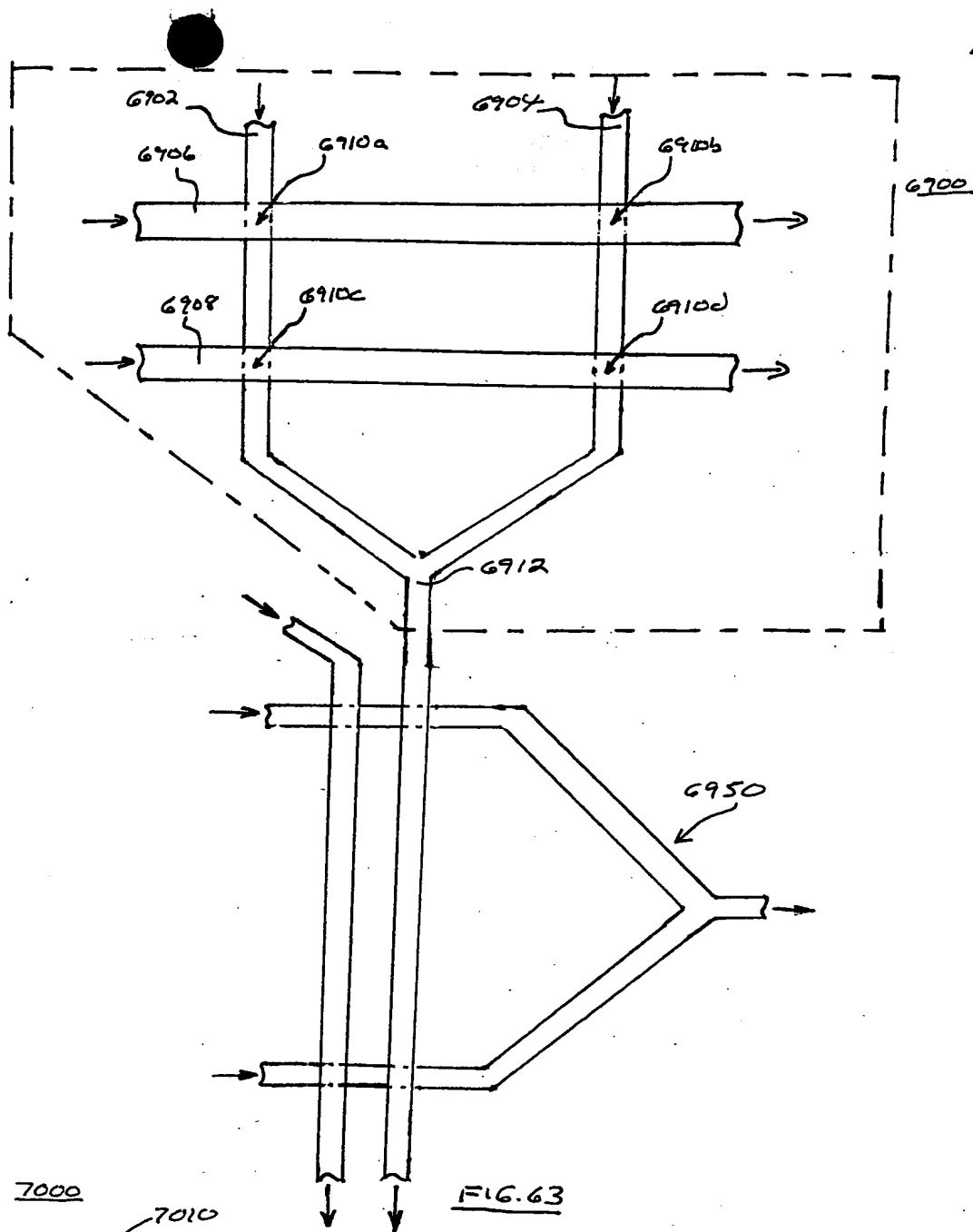
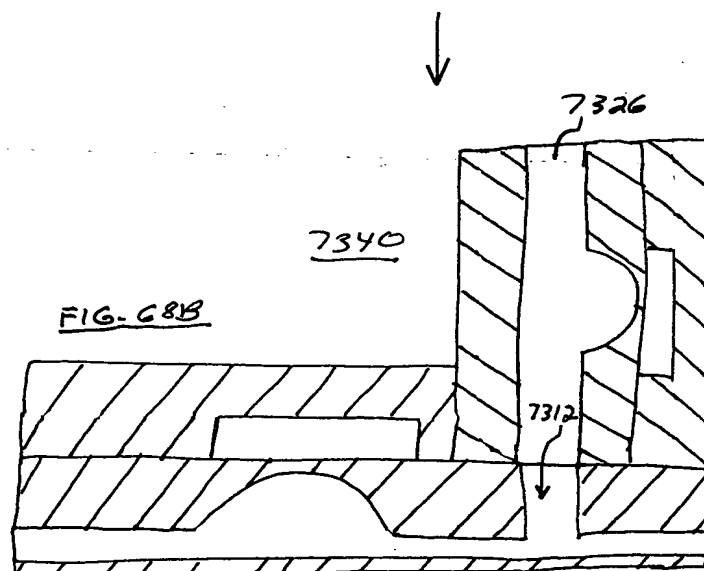
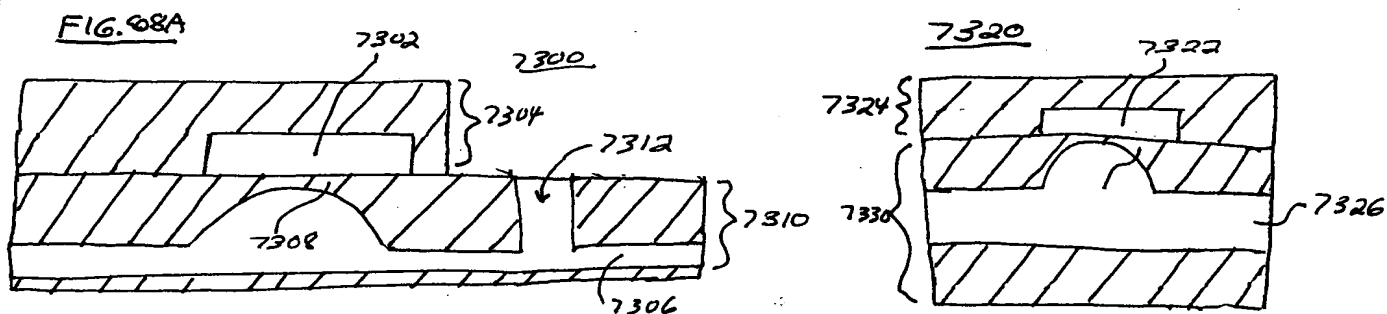
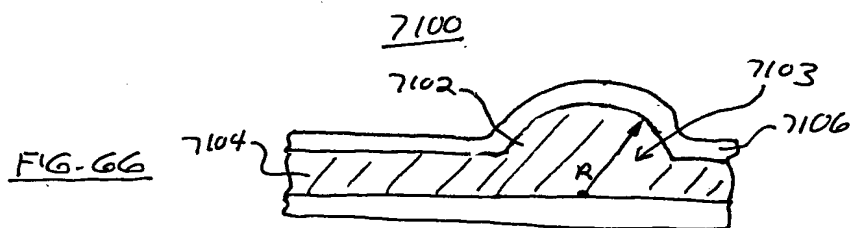
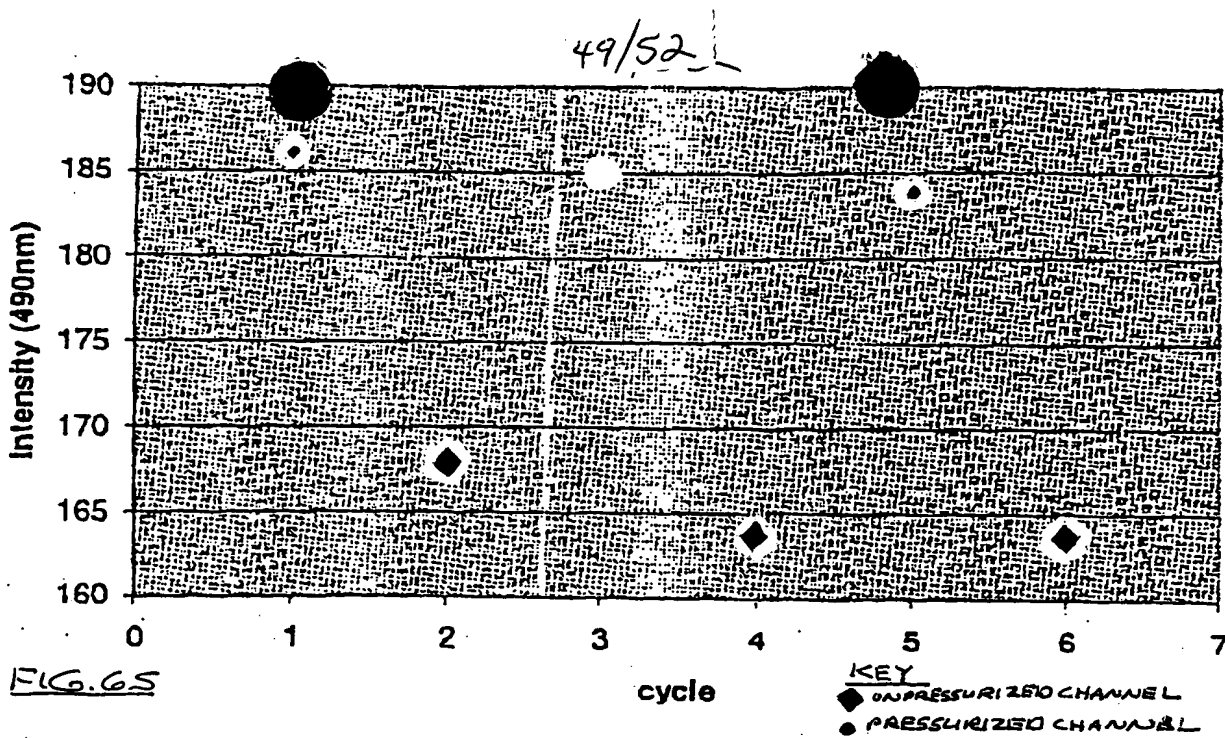


FIG. 62E





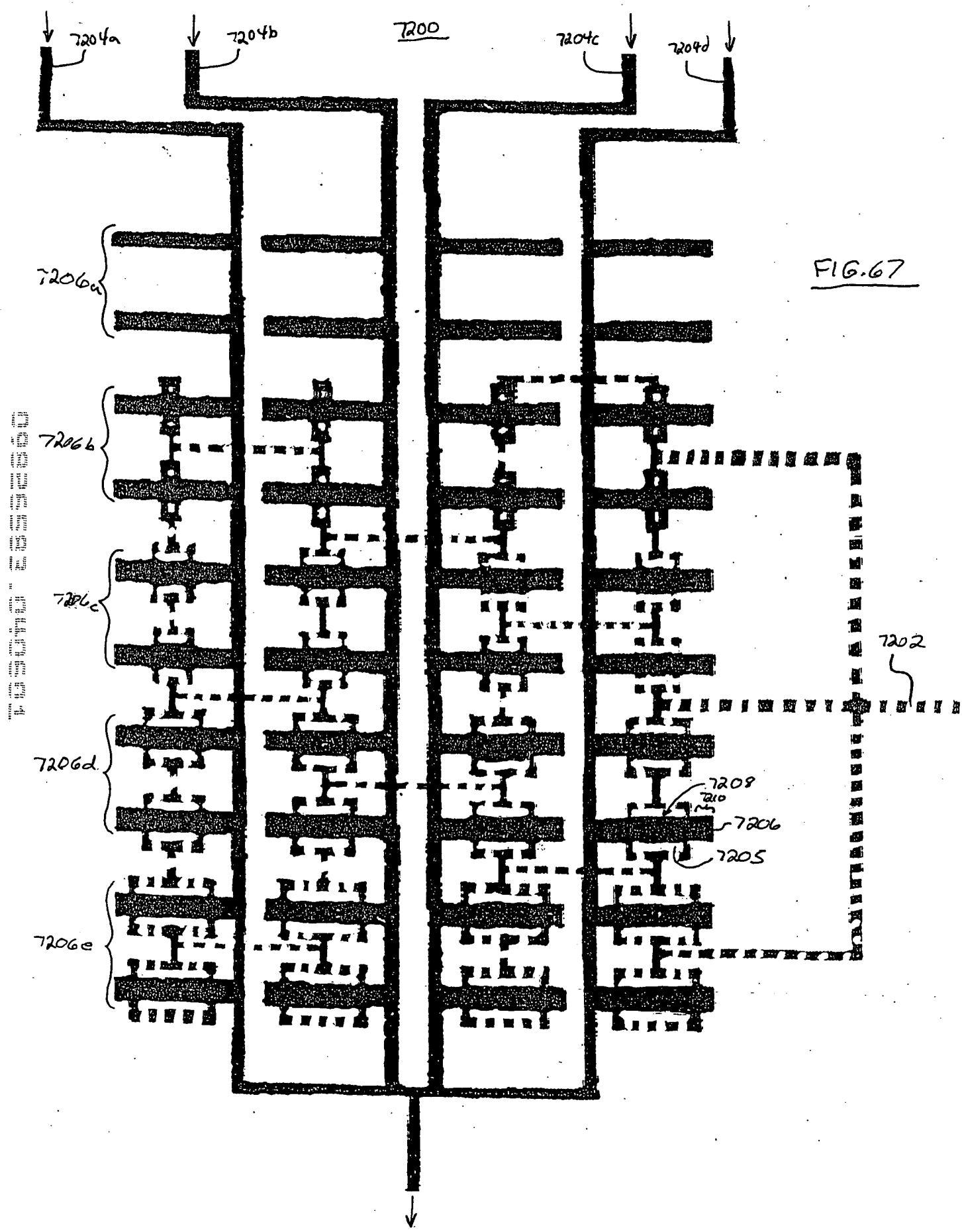
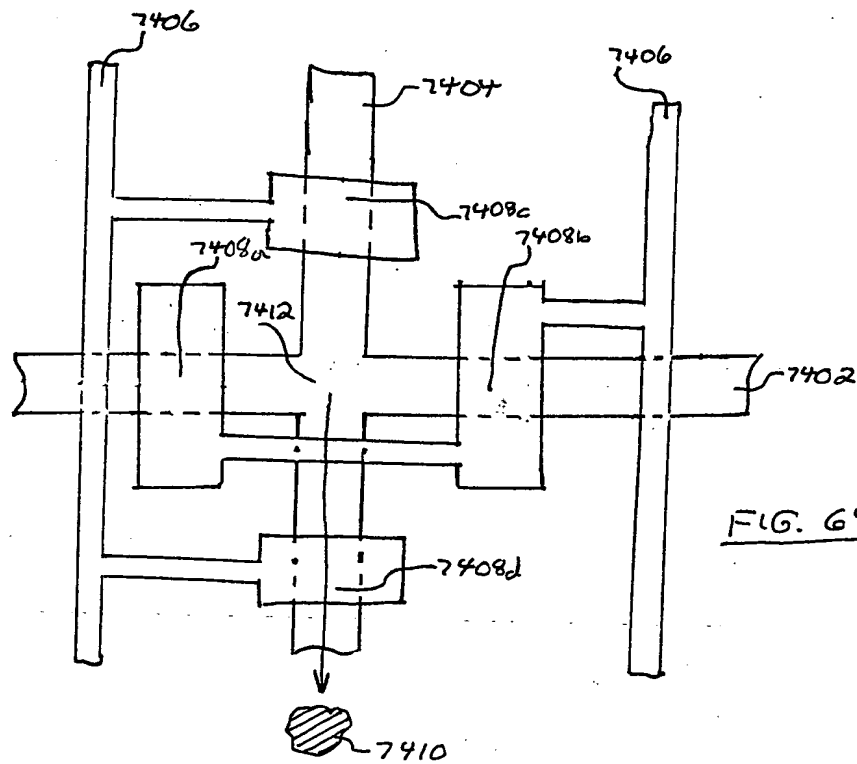
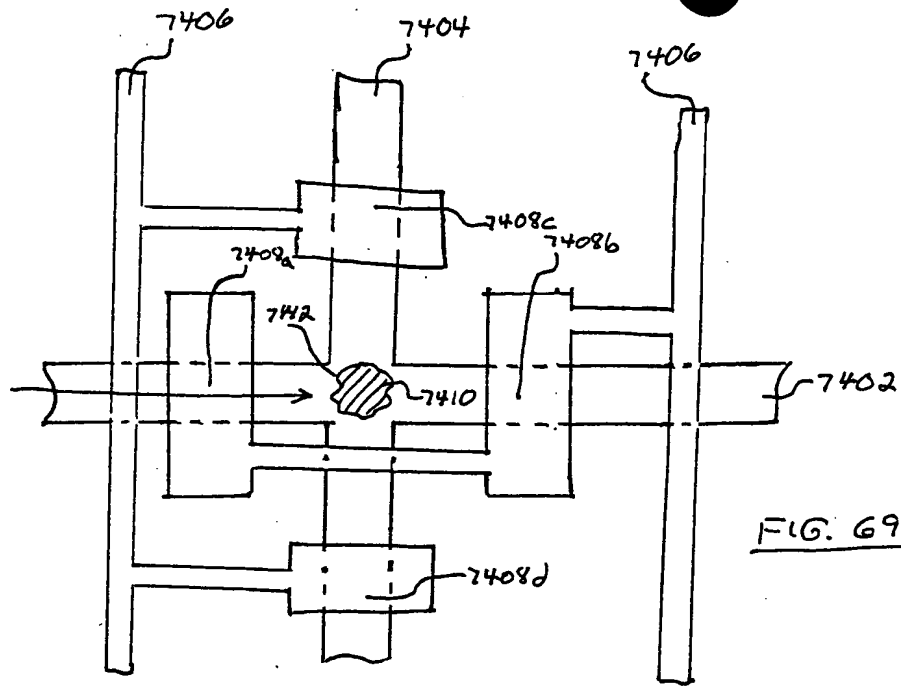


FIG. 67

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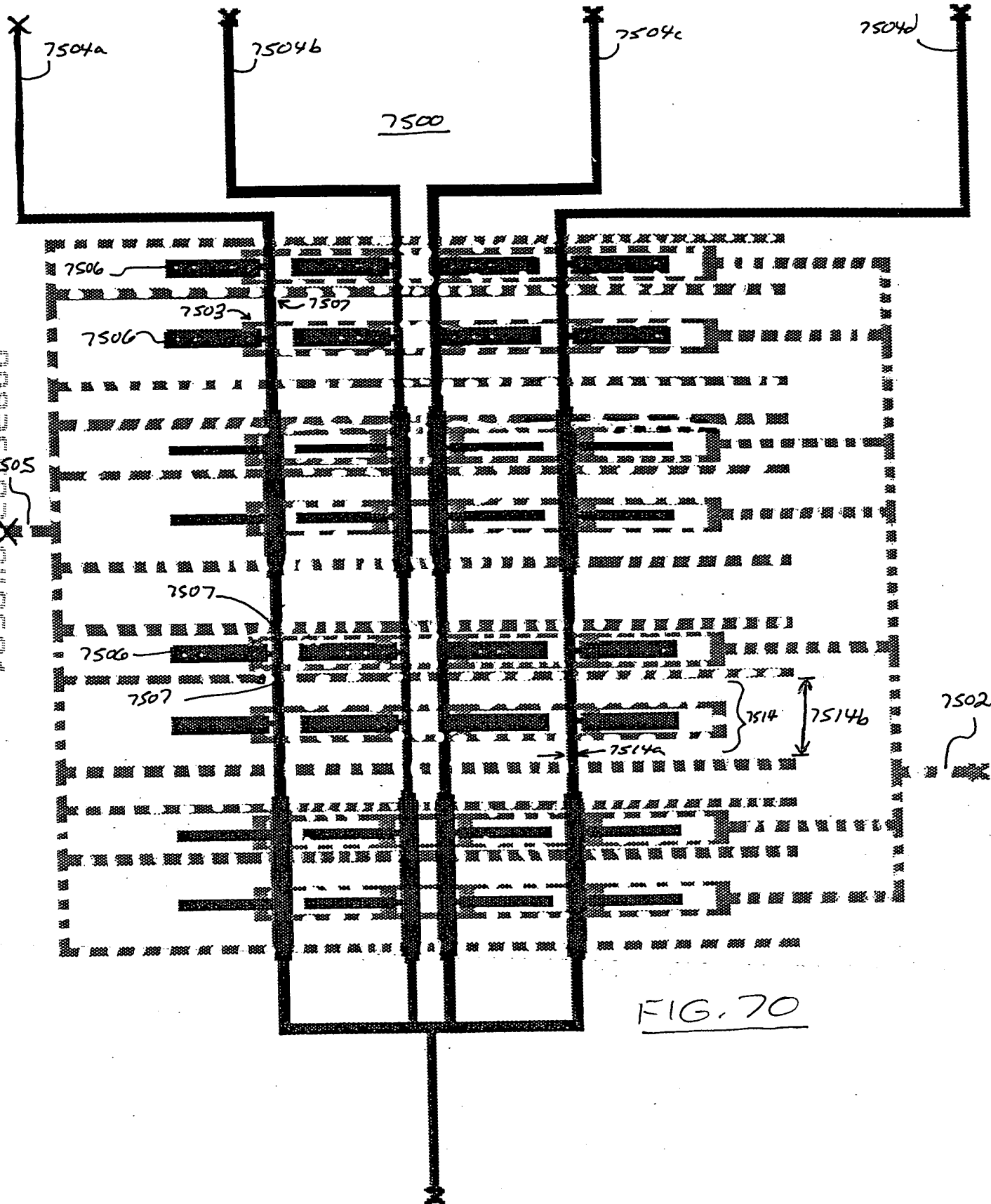


FIG. 70